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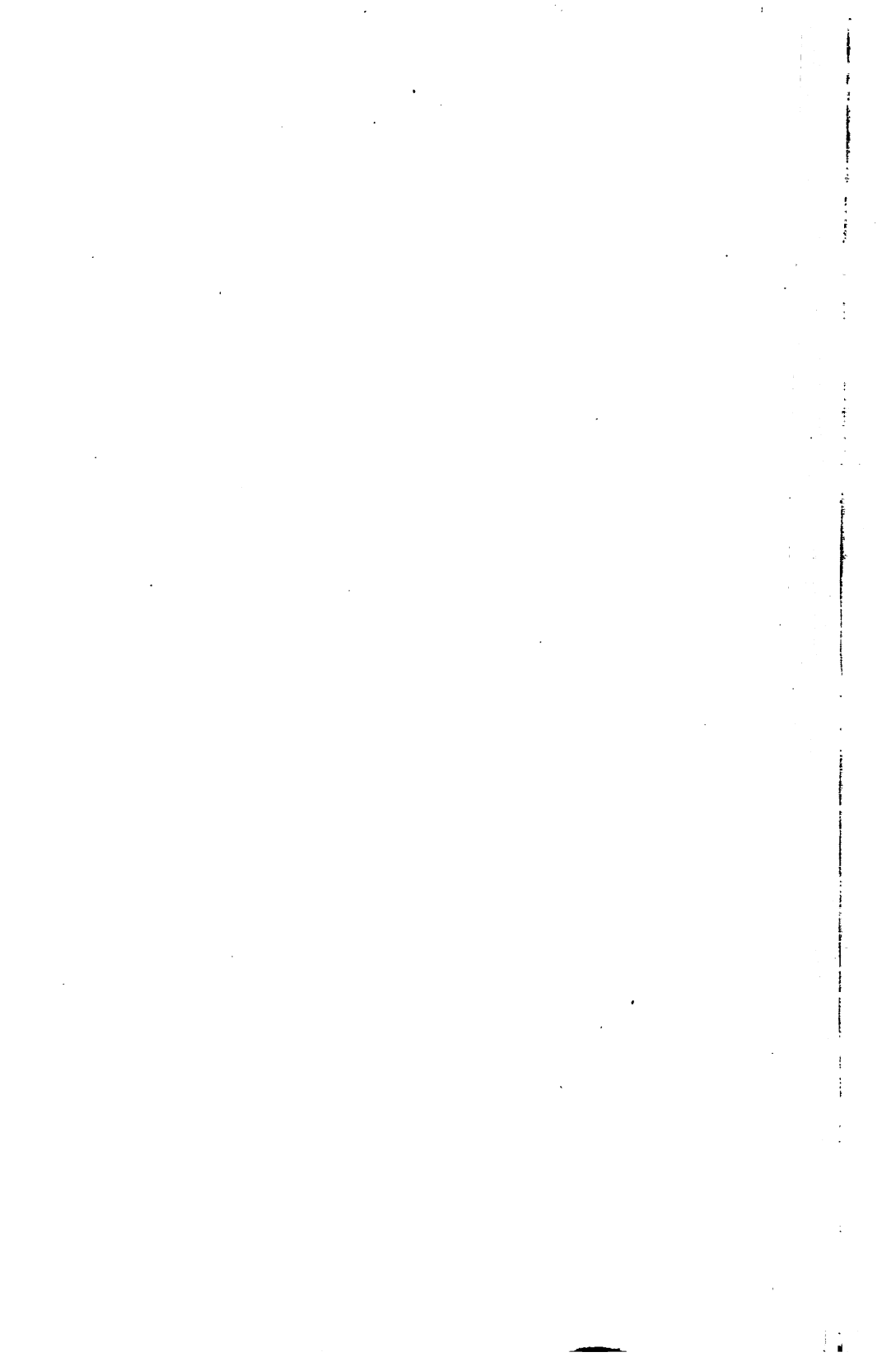
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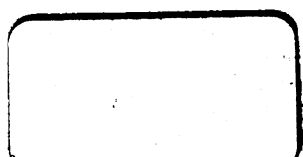
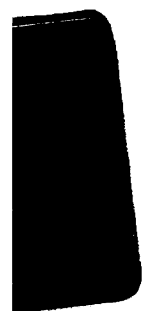
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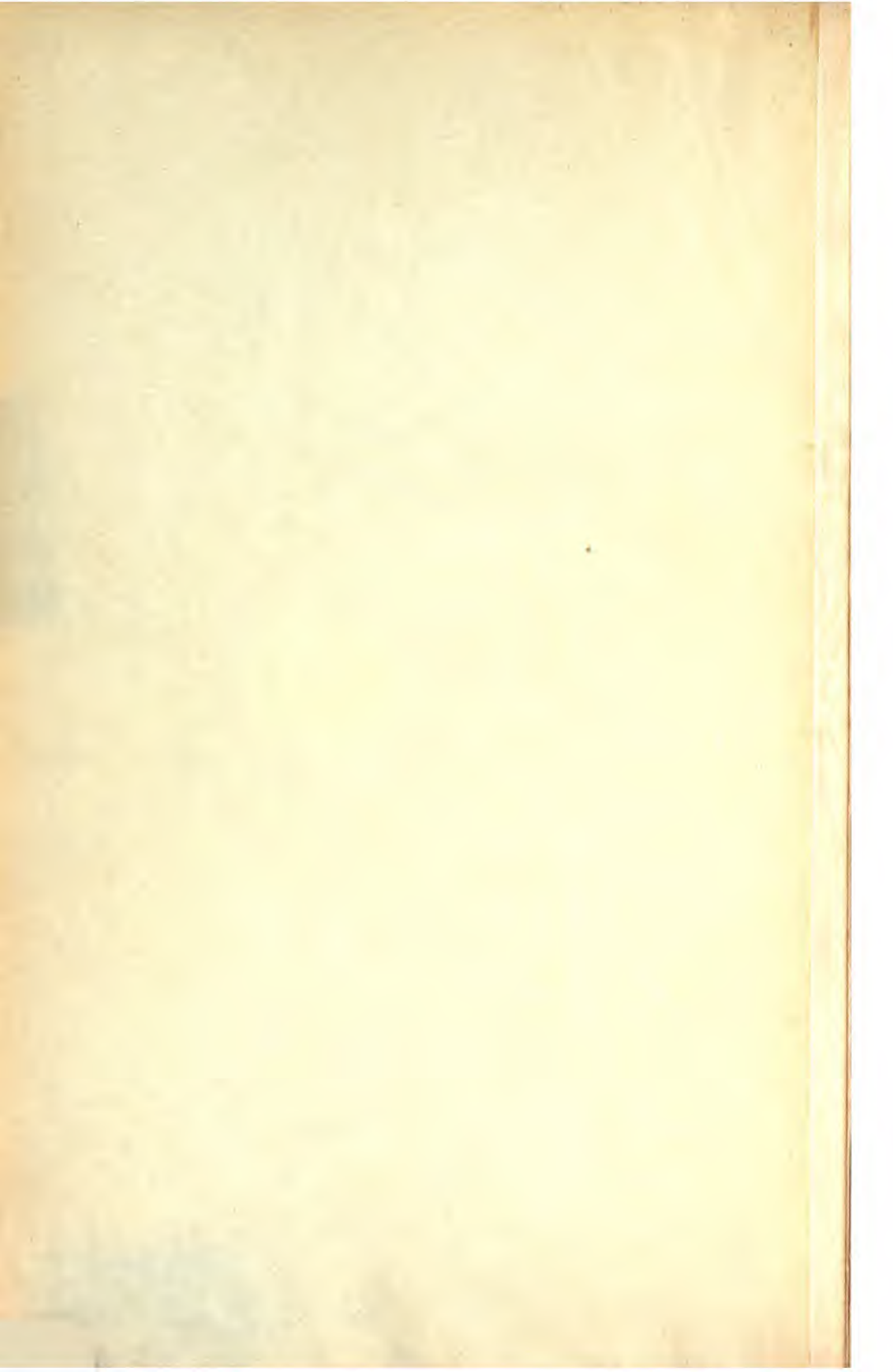
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TWENTY-SECOND ANNUAL REPORT.

COAL MINES

Compliments of

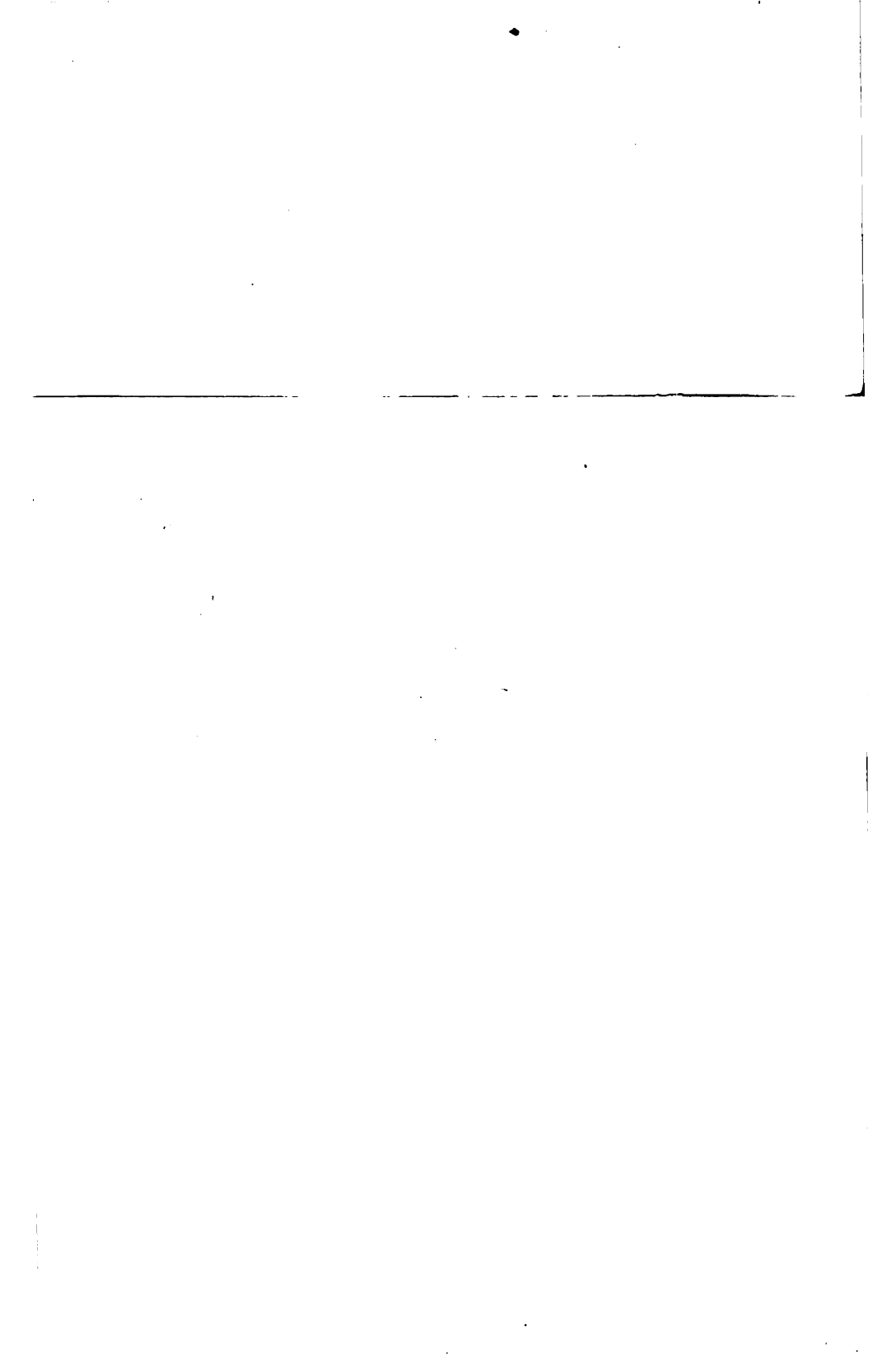
James W. Paul,

★ *Chief Mine Inspector.*

JAMES W. PAUL,
CHIEF MINE INSPECTOR,
CHARLESTON.



CHARLESTON:
THE TRIBUNE PRINTING CO.,
1905



TWENTY-SECOND ANNUAL REPORT.

COAL MINES

IN THE

STATE OF WEST VIRGINIA, U. S. A.,

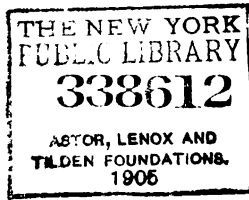
FOR THE YEAR ENDING

JUNE 30TH, 1904.

JAMES W. PAUL,
CHIEF MINE INSPECTOR,
CHARLESTON.



CHARLESTON:
THE TRIBUNE PRINTING CO.,
1905.



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ERRATA.

- Page 2. The figures "\$3,884,847.15" should read "\$3,844,847.15".
- Page 25. After Erskine mine, the total production in the third column of figures should read 27,558.
- Page 27. Next to last column of figures in line with Greenbrier the figures should read 16,992.
- Page 117. In line 487 the name of the Mine Boss should read Thomas Woody.
- Page 160. In the eighth column of figures in line with Totals the figures should read 192.
- Page 214. Third line from top should read Joseph Icenhower, Superintendent.

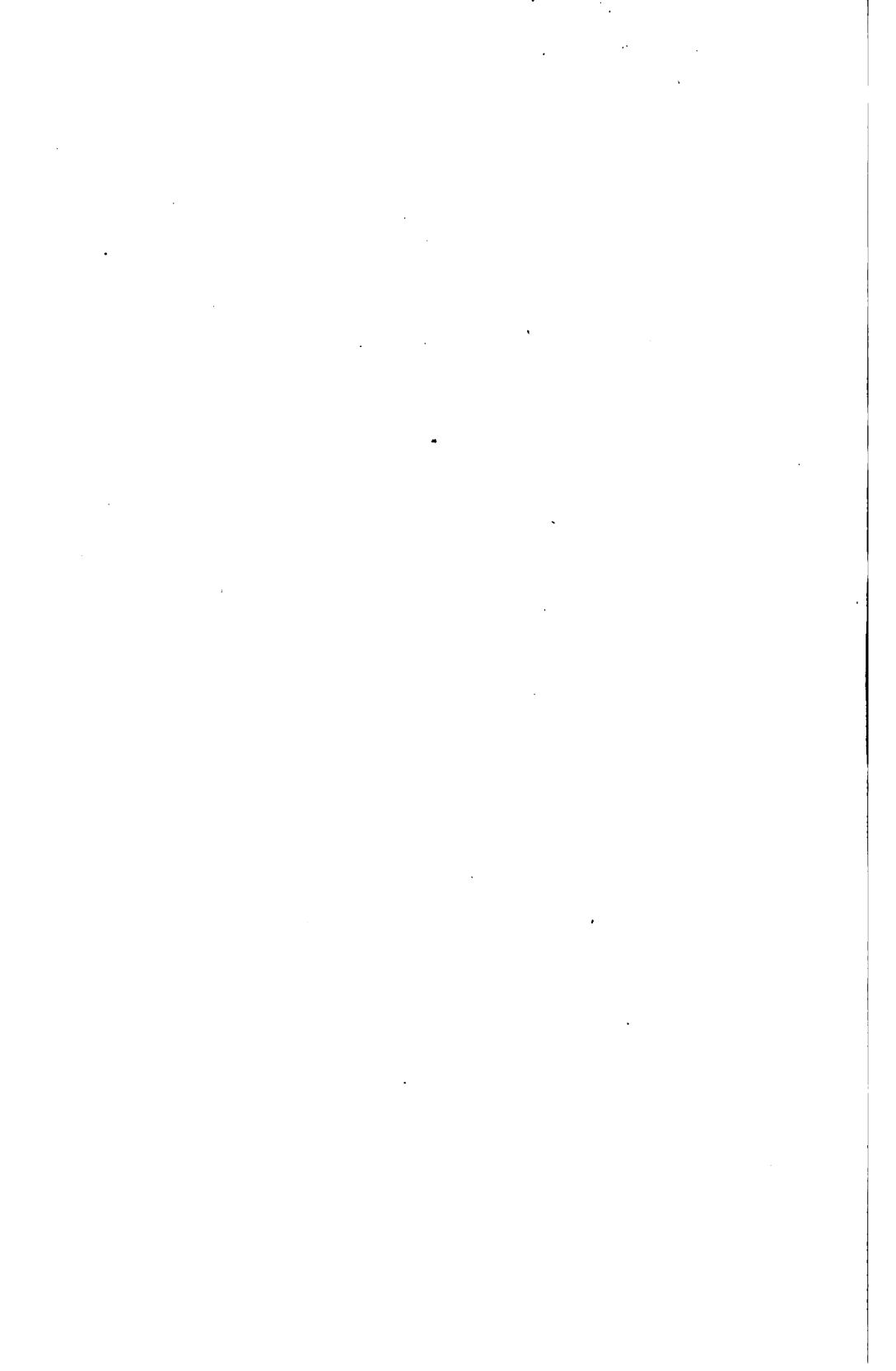


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PERSONNEL OF THE MINE INSPECTION DEPARTMENT.

JAMES W. PAUL, Chief Mine Inspector.
ISAAC M. KELLEY, Inspector for 1st District.
EARL A. HENRY, Inspector for 2nd District.
EDWARD PINKNEY, Inspector for 3rd District.
SAMUEL S. COOPER, Inspector for 4th District.
JERRY WESTLAKE, Inspector for 5th District.

MISS FRANCES TRUSLOW, Clerk.

LETTER OF TRANSMITTAL.

OFFICE OF THE CHIEF MINE INSPECTOR,
STATE OF WEST VIRGINIA.

To His Excellency, ALBERT B. WHITE,
Governor of West Virginia.

SIR:—I have the honor, in compliance with sub-section 3a, of Chapter 106, Acts of 1901, to submit herewith my eighth annual report as Chief Mine Inspector for the State, for the year ending June 30th, 1904.

In this report will be found the reports of the District Mine Inspectors upon the condition of the coal mines and statistical matter relative to the coal mining industry of the State.

In regular order, this is the Twenty-Second Annual Report.

Very respectfully,

JAMES W. PAUL,
Chief Mine Inspector.

Charleston, W. Va., December 14th, 1904.

INTRODUCTION.

The mining statutes require the Chief Mine Inspector in his annual report to include reports upon the condition of the mines; the number of visits and inspections made; the quantity of coal and coke produced; the number of men employed; the number of mines operated; coke ovens in and out of blast; improvements, prosecutions, etc., and such other information in relation to the subject of mines, mining inspection and needed legislation as the Chief Mine Inspector may deem of public interest and beneficial to the mining interests of the State.

This report has been compiled in strict conformity to the above.

For convenience the various topics have been arranged in groups under the following titles:

Annual Report—Descriptive.

Statistical.

Improvements.

Strikes,

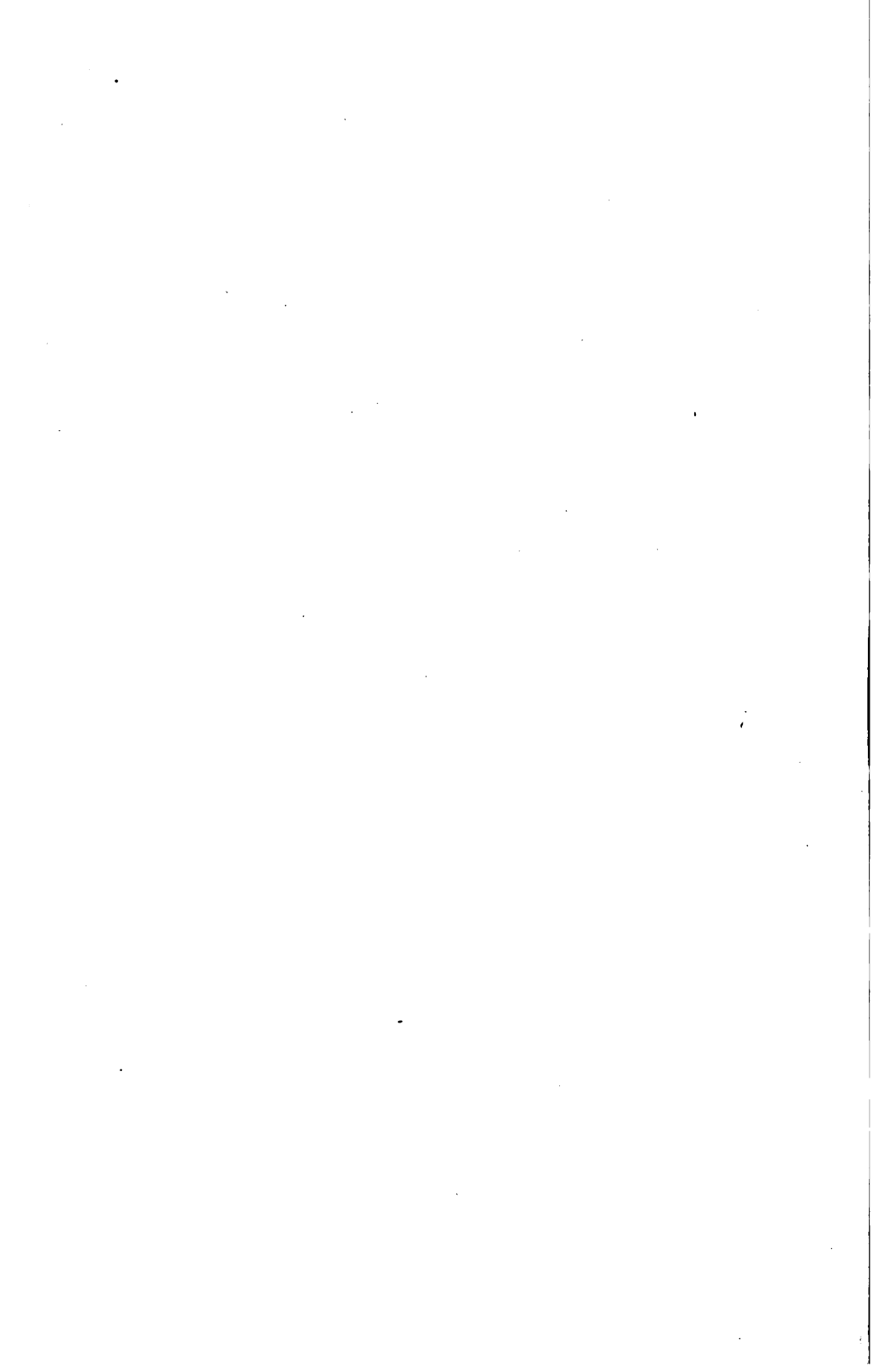
Directory of the Mines.

Accidents.

Condition of the Mines, and an

Appendix.

Under this latter will be found the scale of prices agreed upon by the Kanawha Coal Operators and the United Mine Workers for the years 1903, 1904-1906, the rules adopted by United States Coal & Coke Co., for the operation of its mines; maps illustrating the plan of coal mines as actually executed in the principal coal fields of the State, and bills covering proposed legislation.



ANNUAL REPORT.

ANNUAL REPORT.

TO THE GOVERNOR:—

The number of mines in the State has grown to 629, each of which requires inspection. These 629 mines furnish the product which is handled by 330 commercial companies. During the year there has been an increase of 59 coal companies and 99 mines. Twenty-five of these were in one inspection district.

For the past seven years the average annual increase in the number of new mines has been nearly 63.

What the future will bring in additional mine development is beyond the province of speculation, but it is only fair to presume that future development will be governed solely by the ability of the markets to consume the product.

Large coal areas are being traversed by railroad lines for the purpose of the development of coal properties as yet untouched other than with the prospector's pick. With the completion of these new lines the number of mines will be increased by many score, thus adding to the work of the inspection department.

Inspectors.—Each of the district inspectors has an average of 126 mines in his district and during the year they made an aggregate of 1,466 visits to the mines for the purpose of inspection, inquiring into causes of fatal accidents and making other observations that came within their lawful duties.

Days Worked.—The mines were operated on an average of 209 or 8 days more than during the previous year.

The coke ovens were operated 222 days or 12 days less than during the previous year.

Production and Value.—The mines in the State had a total production during the year of 26,984,715 tons of 2,240 lbs. representing a total value of the coal as it came from the mines of \$28,333,950.75. The coke manufactured was 2,276,451 tons of 2,000 lbs. valued at \$4,177,187.59 at the ovens.

The following tabulation represents the manner in which this tonnage was disposed:

Used in operating the mines.....	327,422
Local trade and tenants	400,858
Used in the coke ovens.....	3,333,861
Shipped from the mines	22,922,574

A total of	26,984,715	of which
Were pick mined	18,667,023	and
Machine mined	8,317,692	tons.

This tonnage of coal originated in the Geographical Districts compared with the previous year as follows:

	1904.	1903.		Change.
Potomac District	1,619,340	1,622,068	D	2,728
Monongahela District	7,396,161	6,679,000	I	717,161
Wheeling District	553,984	503,925	I	50,059
Kanawha-New River District.....	9,293,771	6,540,325	I	2,753,446

Norfolk & Western District.....	7,951,459	7,388,380	I	563,079
Small mines in the State.....	170,000	180,000	D	10,000
Totals.....	26,984,715	22,913,698	I	4,071,017

As indicated in the above there was a net increase over the previous year of 4,071,017 tons. Each geographical district, except the Potomac, gave an increase. The production of small mines fell short 10,000 tons of being equal to the previous year. This is attributed to the decline in prices, which made the operation of the small mines less profitable than during the previous year.

The gross total revenue obtained summarizes as follows:

Total value of all coal produced.....	\$28,333,950.75
Less value of coal used for steam at mines \$ 343,793.10	"
Less value of coal used in coke ovens.....	3,500,554.05
	3,844,347.15
Total value of coal sold.....	\$24,489,603.60
Total value of coke produced.....	4,177,787.59

Total gross value of product placed on the market..... \$28,667,391.19

Machine Mined Coal.—The machine mined coal constituted 30.82 per cent. of the total production for the year and is represented by 8,317,692 gross tons.

The mining machines have had a rapid growth within the State.

There are in use at 248 mines 988 machines furnishing employment to 8,395 persons within the mines.

During the past eight years the machines in use have each averaged a production of 40.4 tons for each working day, or 9,051.5 tons per year.

For each inside employe incident to the mining of machine coal there is produced per year 1,000.7 tons.

The following table will readily exhibit the growth of this means of winning the coal:

Progress of Machine Mined Coal, 1897 to 1904.

YEAR.	No. of mines using Mach-ines.	No. of Mach-ines in use.	Total employ-ees incident to m'chines	Tons produced by machines.	Percentage of coal to total coal production.	Days work-ed.
1897.....	16	55	652	600,418	5.12	197
1898.....	28	96	983	1,070,293	7.4	214
1899.....	41	141	1,808	1,733,279	10.66	240
1900.....	63	241	2,371	2,537,611	13.43	261
1901.....	90	386	3,967	3,582,853	17.65	225
1902.....	124	534	4,813	5,135,823	21.98	249
1903.....	181	795	6,531	6,312,894	27.50	201
1904.....	248	988	8,395	8,317,692	30.82	209
				29,290,863		Avg 224

Tons per each employe for 1904 990.7.

Tons per each employe per year 1,000.7.

Tons produced by each machine per year 9,051.5.

Average days worked per year 224.

Average tons produced by one machine per day 40.4.

Average tons produced by one machine per month of 26 days 1,050.4.

For the last eight years the mines have averaged 224 working days per year and each pick miner has averaged a production of 1,002 tons.

The tons produced in 1904 for each underground employe in the State was 743. In the United Kingdom of Great Britain the production in

1903, the year of the greatest coal production, for each underground employe was 345 7-10 tons.

Tons of Pick Mined Coal Produced Per Each Pick Miner, in Commercial Coal Mines, 1897 to 1904.

YEAR.	Pick coal from Commercial mines.	Pick coal from small country mines.	Pick miners in commercial mines.	Pick miners in small country mines.	Days worked.	Tons produced in commercial mines per each miner.
1897.....	10,971,482	133,929	13,218	No rec'd	197	830.
1898.....	13,084,572	140,000	14,036	do	214	932.
1899.....	14,366,371	150,000	14,119	do	240	1,017.5
1900.....	16,199,300	150,000	14,723	do	261	1,100.
1901.....	16,533,138	175,000	16,609	do	225	995.
1902.....	18,043,260	180,000	15,969	do	249	1,129.8
1903.....	16,420,804	180,000	16,287	do	201	1,008.
1904.....	18,497,023	170,000	18,880	do	209	979.7
	124,116,450	1,278,929	123,841	.....	1,796	.....

Average tons per year for each miner 1,002.

Average time worked per year 224.

Acreage Mined.—During the year there were excavated 3,967.9 acres of coal.

In the past eight years the mines of the State have depleted the coal deposits by 22,316.2 acres as shown below.

Total acreage for the eight years from 1897 is as follows:

1897.....	1,733.9 Acres.
1898.....	2,184.5 "
1899.....	2,361.2 "
1900.....	2,638.8 "
1901.....	2,854.6 "
1902.....	3,353 "
1903.....	3,222.3 "
1904.....	3,967.9 "

Total..... 22,316.2 Acres.

Accidents in Mines.—During the year there have been no great disasters at the mines in the State, a statement which it is a great pleasure to be able to make. There were, however, a number of accidents, which are always incident to the operation of coal mines. A very large percentage of the accidents were due directly to carelessness on the part of the persons injured or killed. A personal investigation into a number of fatal accidents would almost lead to the belief that they were deliberate suicides. By causes the fatalities were: by falls of roof, 95; explosions of gas, 3; mine cars, 22; and by all other causes, 20; a total of 140 fatalities.

Of the 140 fatal accidents, 123 occurred within and 17 without the mines, and of 211 non-fatalities, 191 were inside and 20 outside of the mines.

For each 295 persons employed within the mines of the State in 1904, one employe lost his life by accident, or for each 1,000 employes inside 3.38 persons were killed by accident, this being 1.44 less than in 1903.

Summary of Accidents Inside of the Mines for 1904 and 1903.

	1904	1903	Changes
Number of employes inside.....	36,316	30,450	I 5,866
Number of days mines were operated.....	209	201	I 8
Number of persons killed inside.....	123	147	D 24
Number of days' work accomplished.....	7,590,044	6,120,450	I 1,469,594

Number killed per 1,000 employees inside.....	3.38	4.82	D	1.44
Number killed per 1,000 days' work inside.....	.0182	.0240	D	.0078
Number of persons injured non-fatally, inside.....	191	208	D	17
Number injured per 1,000 employees inside.....	5.259	6.890	D	1.571
Number injured per 1,000 days' work inside.....	.0251	.0339	D	.0088
Number of inside employees for each fatality.....	295	207	I	88

The greatest number of accidents are caused by falls of roof within the mines, and until greater care is exercised within the mines there will be no abatement in the number of fatalities from this cause.

Carelessness of a criminal nature is the direct cause of many accidents of this kind. This condition of affairs is brought about in many instances by reason of the inexperience of the employe. Greater care exercised by the mine foremen would result in less accidents from this cause, or if timbering should be conducted in a systematic manner. By causes for the past eight years the fatalities, inside, have been as follows:

CAUSES.	1897	1898	1899	1900	1901	1902	1903	1904	Totals.
Falls of Roof.....	47	67	64	81	78	79	96	95	585
Mine Cars.....	6	6	7	11	11	13	12	12	78
Gas Explosions.....	1	1	1	50	10	.....	24	3	88
All Other Causes.....	7	2	8	11	24	18	15	13	98
Totals.....	60	76	79	133	121	110	147	123	849

Transportation.—The five railroads within the State, during the year, handled a total tonnage of coal from the mines within the State amounting to 24,033,424 net tons and of coke from the ovens 2,467,368 net tons.

River Shipment.—For the calendar year 1903 the tonnage of coal and coke floated on the Great Kanawha river amounted to: Coal 1,332,430 and coke 1,500 tons of 2,000 lbs. or a total of 1,333,930 tons.

Improvements at the Mines.—During the year there have been 55 new plants equipped; 29 power plants have been installed and 1,500 coke ovens were constructed. Seventeen fans and five furnaces have been added to the mine equipment and 33 tipples were erected and 28 additional openings were made at the older mines.

Coke Ovens and Production.—There is a total of 15,857 coke ovens within the State, principally of the Bee hive pattern. During the year there were 7,321 idle and 8,536 which were operated an average of 222 days, using 3,733,924 tons of coal in the production of 2,276,451 tons of coke, valued at \$4,177,787.59 and giving employment to 3,511 coke workers.

Consolidations.—In the year 1897 there were 21 mines producing between 100,000 and 200,000 tons and 4 mines producing over 200,000 tons, each representing a single company, with one exception.

During the past year there were 28 companies which produced over 200,000 tons and had an aggregate production of 13,092,677 tons or 30.8 per cent. of the State's entire production.

These companies with their productions are as follows:

	Gross tons.
Fairmont Coal Co.....	3,601,481
Davis Coal & Coke Co.....	1,301,569
Kanawha & Hocking Coal & Coke Co.....	854,299
Red Jacket Coal & Coke Co.....	517,812
The New River Smokeless Coal Co.....	513,284
Clarksburg Fuel Co.....	473,239
Norfolk Coal & Coke Co.....	466,018

United States Coal & Coke Co.....	366,615
Pittsburg & Fairmont Fuel Co.....	315,725
Houston Coal & Coke Co.....	304,940
Southern Coal & Transportation Co.....	295,852
McKell Coal & Coke Co.....	285,467
Empire Coal & Coke Co.....	282,641
Merchants Coal Co.....	278,976
Davis Colliery Co.....	273,168
Collins Colliery Co.....	267,593
Gauley Mountain Coal Co.....	266,654
Ashland Coal & Coke Co.....	257,894
Turkey Gap Coal & Coke Co.....	237,143
Pulaski Iron Co.....	237,100
The Marmet Co.....	223,677
Thacker Coal & Coke Co.....	216,851
W. P. Rend.....	213,707
Mill Creek Coal & Coke Co.....	213,176
Elkhorn Coal & Coke Co.....	212,077
Crozer Coal & Coke Co.....	207,254
White Oak Fuel Co.....	206,200
Boomer Coal & Coke Co.....	202,265
Total.....	13,092,677

Two consolidations of coal interests were consummated during the year.

The first was that of The New River Smokeless Coal Co., which absorbed the following collieries: Cunard, Brooklyn, Red Ash, Rush Run, Sun Nos. 1 & 2, Royal and Lanark Nos. 1 & 2.

The second consolidation was the Pocahontas Consolidated Company, which absorbed the companies formerly operating the following mines: Angle, Delta, Lick Branch, Norfolk, Shamokin, Rolfe, Caswell Creek and Sagamore.

In addition to the above there are 49 companies, each of which produced over 100,000 tons, but less than 200,000, and 46, each of which produced between 50,000 and 100,000 tons.

Wages.—During the first six months of the fiscal year the wages were about 10 to 15 per cent. higher than for the last six months. This condition prevailed during the previous year, but in the reverse order.

The average wages received for pick mined coal per gross ton, run-of-mine, was 49½ cents, the same as for the previous year. The days worked at the mines were 209, and the average yearly wages received, per miner, was \$484.96. Each pick miner averaged a production of 979.7 tons during the year, or 28.3 tons less than during the previous year.

For machine mined coal the average prices paid in the State were as shown in the table which follows:

Machine miners paid per day.....	\$2 17½
Machine miners paid per ton run-of-mine in rooms.....	30
Machine miners paid per ton run-of-mine in headings.....	35
Machine miners paid per ton screened in rooms.....	51
Machine miners paid per ton screened in headings.....	53
Machine runners paid per day.....	2 48
Machine runners paid per ton run-of-mine in rooms.....	07½
Machine runners paid per ton run-of-mine in headings.....	09
Machine runners paid per ton screened.....	12
Machine runners paid per foot.....	04
Machine runners paid per hour.....	19½

The ton used in the above is gross.

Selling Prices.—The selling price of coal per ton of 2,240 lbs. was \$1.05 at the mines for run-of-mine coal, a decrease of 27 2-3 cents compared with 1903.

Coke sold for \$1.83½ per ton of 2,000 lbs., a decrease of 82¾ cents under prices for 1903.

Men Employed.—The greatest number of men employed within and about the mines and coke ovens, for any year, was during the present, when 45,492 were employed, an increase over the previous year of 6,040. These were employed as follows: Pick miners, 18,880; machine operators 1,574; machine miners, 6,821; inside laborers 9,041; coke workers, 3,511; and outside laborers, 5,665.

Strikes.—During the months of April, May and June of the year there were strikes among the mine employes in the panhandle counties, or Wheeling district, which were brought about by reason of the operators and miners being unable to agree to a new scale to conform to the Indianapolis joint agreement between the operators of the several coal producing States and the United Mine Workers.

During the same period there was a strike among a number of mines in the Kanawha Valley, for the same reason.

In the entire State ten counties and 42 operations were affected, throwing out of employment 2,926 men, and causing a loss of wages to the employes of \$126,032.00 at 17 mines and a loss to the operators of \$23,210.00 at 11 companies.

Legislation.—With the increase in the coal industry in the State the work of this department has materially grown. This is brought about by reason of the increased number of mines requiring inspection and a growing tendency on the part of the mine employes and operators to avail themselves of frequent conferences with the personnel of the department in relation to matters for betterments at the mines.

The work of this department has been conducted with the view of a systematic inspection of the mines, and an observance of the mining statutes with the least possible friction.

The duties required of the district inspectors are such that it has become a physical impossibility for the inspector to make the required number of inspections of each mine. If the inspector should merely go to the main entrance of each mine in his district four times per year it would consume every working day of the year, and leave him no time in which to make an inspection of the mine, while there are mines in each district that are of such extent that it requires two and three days to make the necessary inspection.

The efficiency of the inspector's work is much reduced by his having so many mines and so little time to devote to each. Oftimes matters and conditions are such that it is essential that a mine be given special attention, and in doing so others have to be given less attention. Important instructions may be given requiring immediate attention, and to make such instructions effective the inspector should return at an early date to see that the instructions have been executed, otherwise important matters are frequently neglected for many weeks or until the inspector returns to make his regular inspection.

There are not a sufficient number of district inspectors to do any part

of justice to the work required of them. There are now 630 mines requiring inspection, an average of 126 mines for each inspector, necessitating 504 inspections to comply with the law. Sixty mines is the greatest number that should be assigned any one inspector. It is, therefore, highly essential that there be at least five additional inspectors provided for by legislation, which would allow 63 mines for each inspector at the present time.

In the matter of oil for illumination within the mines, it has been found that greater trouble is had with the employes in burning mixed and inferior compounds than is had with the retailer of oils.

The testing of oils is a part of the duties of this department and many tests have been made, but owing to the other duties of the inspectors sufficient time is not available to take up this oil matter in a systematic manner.

Owing to the prominent position to which the coal industry of the State has reached,—it being the greatest commercial industry which the State possesses, and the future destined to bring the industry into greater prominence,—it appears that, with wisdom exercised in a proper spirit for the building-up of our State's greatest commercial asset, it would be proper to give a little additional prestige to the mine inspection branch of the State government by giving it a name, such as the "Department of Mines".

In addition to this the statutes should be so amended as to place the Department of Mines under the direction of a chief whose duties shall be as far-reaching as those now prescribed for the Chief Mine Inspector.

As the statutes are to-day the terms of office of all of the district inspectors and the Chief, terminate at the same time, one month previous to the closing of the fiscal year for which all public records of the Chief Mine Inspector, and the district inspectors, are made. This feature of the law should be modified so it would permit the terms of service to expire not later than after the expiration of any fiscal year.

The efficiency of the work of this department could be made more satisfactory if the Chief of the department were clothed with the authority to designate the force which works under his direction, and for which he is held responsible. The inspection force should be remunerated with a salary befitting the importance of his office, his duties and risks taken. The present compensation is not sufficient to meet decent requirements. District inspectors in Pennsylvania receive a salary of \$3,000.00 and the Chief \$4,000.00, consequently do not have to hunt cheap boarding houses.

A provision should be made whereby an additional district inspector could be appointed while the Legislature is in vacation and when the number of mines to be inspected justify it. This authority could be made subject to the order of some State tribunal, such as the Supreme Court of Appeals, or The Board of Public Works. The importance of this provision is apparent, since the mines for the past seven years have increased at the rate of nearly 63 per year, and the indications point to a continuous increase.

No condition has arisen at any of the many mines in the State wherein the present mining statutes have been unequal to the requirements.

The only additional legislation for the conduct of the affairs at the

mines, which is recommended for enactment, is a provision requiring mine bosses to make a record of the currents of air within the mines. This provision was presented in a bill at the session of the State Legislature in 1903, and was given favorable consideration and passed in one branch of the Legislature, but was indefinitely postponed in the other branch by reason of the representatives of labor claiming that such a simple operation on the part of the mine boss, would require a technical knowledge and some education.

It is the profound belief of the inspection force that such a law would result in raising the standard of competency among mine bosses, and great benefits would result to the mine employes in having better ventilation.

Bills, provided for the legislation suggested above, have been prepared, and may be seen in the appendix to this report.

Conclusion.—Acknowledgment is made of courtesies extended me by the auditors and general freight agents of the different railroads for furnishing the coal and other tonnage handled by their respective roads, and to the office force of the United States Engineer's office in this city for river tonnage data.

Without mention in this report of the clerical work performed in this office by Miss Frances Truslow would be depriving her of credit for a proficiency which has been well earned.

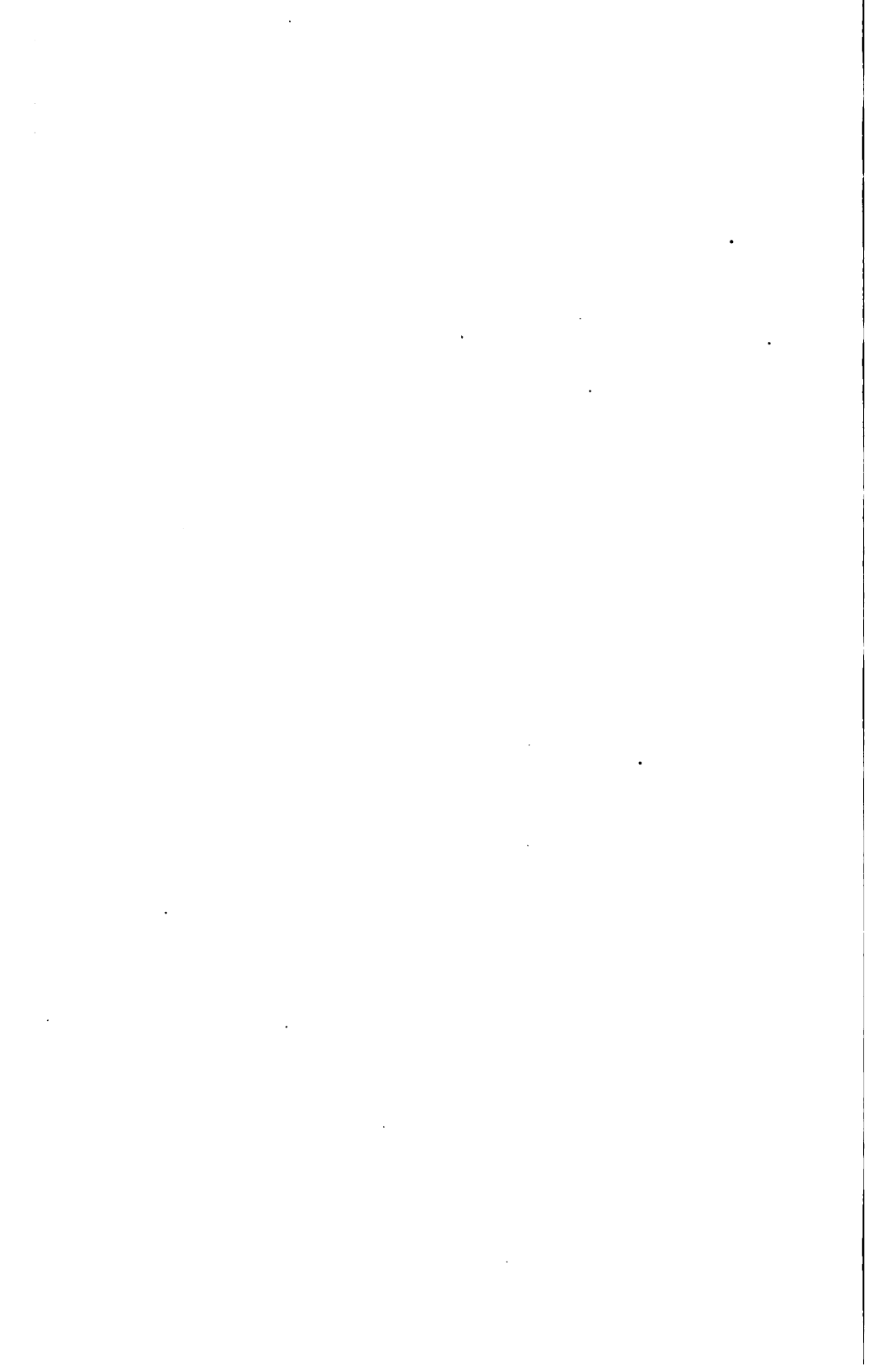
I desire to express my appreciation of the diligence which has characterized the work of the district inspectors, and to return thanks to the Governor of the State for the confidence he has reposed in me in the conduct of the affairs of this important office.

Very respectfully,

JAMES W. PAUL,

Chief Mine Inspector.

STATISTICAL.



THE FOLLOWING TABLE EXHIBITS A COMPARATIVE STATEMENT AND SUMMARY OF THE ANNUAL REPORTS FOR 1904 AND 1903.

	For year ending June 30, 1904.	For year ending June 30, 1903.	Increase of 1904 over 1903.	Decrease of 1904 under 1903.
Number of counties in which coal is mined on a commercial scale	25	24	1	
Number of firms operating coal mines on a commercial scale	330	271	59	
Number of openings in all kinds subject to the mining law	630	530	90	
Number of tons (2,240 lbs.) pick mined coal from commercial mines	18,497,023	16,430,804	2,076,219	
Number of tons (2,240 lbs.) machine mined coal from commercial mines	8,317,892	8,373,894	2,004,798	
Total number of tons (2,240 lbs.) of coal from commercial mines	26,814,715	22,773,698	4,081,017	
Estimated tons of coal from small mines (2,240 lbs.)	26,170,100	22,180,000	10,000	
Total number of tons of coal from all mines (2,240 lbs.)	26,834,715	22,013,698	4,071,017	
Number of tons of coal converted into coke (2,000 lbs.)	3,723,424	2,463,375	1,260,049	
Number of tons of coke manufactured (2,000 lbs.)	3,276,454	2,225,894	1,050,560	
Total value of coal at the mines	\$ 28,335,870.75	\$ 30,386,630.15	\$ 2,050,759.40	
Total value of coal at the ovens	\$ 28,335,870.75	\$ 30,386,630.15	\$ 2,050,759.40	
Value of a ton of coal at the mines (2,240 lbs.)	4,177,761.56	6,011,868.40	1,834	
Value of a ton of coke at the ovens (2,000 lbs.)	1.83	2.66	.83	
Number of mining machines in use	1,634	1,324	310	
Average number of coke ovens in use	8,586	9,061	475	
Number of days the mines were in operation	236	201	35	
Number of days the ovens were in operation	232	234	2	
Number of pick miners employed in commercial coal mines	18,880	16,287	2,593	
Number of machine operators and miners employed in commercial coal mines				
Number of underground laborers in commercial coal mines	8,385	6,531	1,854	
Number of outside employees connected with the commercial coal mines	9,041	7,623	1,418	
Number of coke employees	5,966	5,151	815	
Total number of men employed at the commercial mines and ovens	3,511	3,861	350	
Number of men killed	45,492	38,452	6,040	
Number of men injured non-fatally	140	159	19	
Number of men injured fatally	211	223	12	
Number of men employed for each man killed	325	243	82	
Number of men employed for each man injured	216	177	39	
Tons of coal mined in commercial mines for each fatality	191,534	142,979	48,555	
Tons of coal mined in commercial mines for each non-fatality	127,064	101,945	25,119	
Number of wives left widows	74	68	6	
Number of children left fatherless	187	101	86	
Acres of coal worked out	3,967.86	3,222.29	745.57	
Number of tons of coal produced (in commercial mines) per miner, pick and machine miners and runners included	983	998	15	
Average earnings of each miner per year	484.96	499.08	14.12	
Average earnings of each miner per month	40.41	41.59	1.18	
Average price per ton of 2,240 lbs. for mining run-of-mine coal (cents)	49%	49%		

**TABLE SHOWING PRODUCTION OF COAL AND COKE FOR
THE YEARS 1883 TO 1904, INCLUSIVE.**

*YEARS.	Coal (Tons of 2,240 lbs.)	Coke (Tons of 2,000 lbs.)	YEARS.	Coal (Tons of 2,240 lbs.)	Coke (Tons of 2,000 lbs.)
1883.....	2,805,565	190,889	1894.....	9,427,028	1,067,186
1884.....	3,000,000	182,000	1895.....	9,878,099	1,204,657
1885.....	3,008,091	187,619	1896.....	12,062,468	1,594,681
1886.....	3,213,093	226,623	1897.....	11,705,829	1,374,497
1887.....	4,207,039	481,477	1898.....	14,294,865	1,742,256
1888.....	4,799,611	517,317	1899.....	16,250,150	1,950,179
1889.....	4,663,857	360,716	1900.....	18,886,911	2,496,107
1890.....	5,643,946	892,490	1901.....	20,290,991	1,932,912
1891.....	7,281,427	1,208,418	1902.....	23,359,083	2,249,744
1892.....	7,777,570	1,333,439	1903.....	22,913,698	2,433,376
1893.....	9,758,991	1,060,909	1904.....	26,984,715	2,276,451

Calendar years 1883 to 1887, inclusive. Since 1887 the coal and coke statistics have been given for the fiscal year ending June 30th.

**TABLE SHOWING THE COKE PRODUCTION, BY COUNTIES,
FROM 1897 TO 1904, INCLUSIVE.**

(Tons of 2,000 lbs.)

COUNTIES.	1897	1898	1899	1900	1901	1902	1903	1904
Barbour.....		1,350	5,980	12,579	12,668	15,682	20,991	19,128
Fayette.....	329,069	394,052	454,999	481,699	442,411	115,398	437,090	434,919
Harrison.....		5,419	5,871	15,994	5,190	16,572	62,382	631
Kanawha.....	20,132	21,578	10,983	32,665	30,722	29,722	25,789	9,547
Marion.....	142,043	149,060	155,985	298,119	118,285	210,451	232,924	102,416
McDowell.....	567,070	731,681	923,186	1,070,033	953,702	929,433	1,016,988	1,170,200
Mercer.....	115,522	145,061	192,632	207,277	167,769	175,083	167,567	190,132
Monongalia.....	2,778	12,337	5,204	17,077	5,777	12,948	30,509	22,999
Preston.....	19,567	38,450	34,023	46,250	6,500	18,930	84,627	27,611
Raleigh.....	18,454	20,007	20,398	15,460				
Randolph.....				3,223	13,498	88,845	120,887	77,077
Tucker.....	159,842	229,261	140,638	295,731	176,392	279,680	264,122	221,801
Totals.....	1,374,497	1,742,256	1,950,179	2,496,107	1,932,912	2,249,744	2,433,376	2,276,451

ORDER IN THE PRODUCTION OF COKE.

COUNTY.	1897	1898	1899	1900	1901	1902	1903	1904
McDowell.....	1	1	1	1	1	1	1	1
Fayette.....	2	2	2	2	2	2	2	2
Tucker.....	3	3	5	4	3	3	3	3
Marion.....	4	5	4	3	5	4	4	5
Mercer.....	5	4	3	5	4	5	5	4
Kanawha.....	6	7	8	7	6	7	10	10
Preston.....	7	6	6	6	9	9	8	7
Randolph.....				12	7	6	6	6
Raleigh.....	8	8	7	10				
Monongalia.....	9	9	11	8	11	8	9	8
Harrison.....		10	10	9	10	10	7	11
Barbour.....		11	9	11	8	11	11	9

TABLE SHOWING THE COAL PRODUCTION, BY COUNTIES, FROM 1888 TO 1904, INCLUSIVE.

(Tons of 2,240 lbs.)

COUNTIES.	1888	1889	1890	1891	1892	1893	1894	1895	1896
Barbour.....	17,108	19,203	32,867	33,999	35,046	29,375	7,736	50,013	49,623
Brooke.....	1,522,430	989,276	1,302,355	1,737,617	1,564,579	2,350,250	1,195,102	2,162,090	3,253,547
Fayette.....	113,030	111,440	128,964	113,268	142,960	248,069	275,237	204,442	155,772
Harrison.....	962,310	976,396	1,021,365	1,209,886	1,175,371	1,210,749	1,143,638	1,073,253	1,068,737
Kanawha.....	253,675	245,899	406,900	722,594	903,896	958,236	52,673	40,610	1,219,017
Logan.....	59,172	84,606	110,418	118,242	166,863	110,530	84,037	137,762	148,128
Marshall.....	85,870	136,797	129,744	116,598	123,323	141,101	92,764	171,074	101,448
Mason.....	762,645	245,760	504,222	704,871	1,100,862	1,876,888	2,340,561	2,440,551	2,898,013
McDowell.....	468,618	744,903	744,403	1,210,723	1,175,141	1,196,574	896,942	865,379	1,308,417
Mercer.....	.....	433,365	512,217	623,067	473,862	557,488	499,808	614,790	1,554,492
Mineral.....	.....	.....	.....	.....	.....	.....	.....	95,279	111,800
Mingo.....	.....	6,850	28,000	46,100	70,062	97,905	62,125	47,653	52,060
Monongalia.....	137,678	159,664	92,467	80,738	82,534	49,661	49,821	86,691	122,106
Ohio.....	147,230	134,925	159,320	134,467	82,089	105,618	39,696	52,365	116,361
Preston.....	135,100	107,325	183,184	156,856	154,662	197,733	149,474	122,067	161,555
Putnam.....	.....	.....	.....	.....	.....	.....	48,865	84,762	89,279
Roane.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Raleigh.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Randolph.....	66,439	177,901	68,403	83,851	74,000	937	.....	.....	.....
Taylor.....	48,256	79,647	219,067	189,050	396,320	68,028	72,229	86,536	43,469
Tucker.....	.....	.....	.....	.....	55,920	538,950	418,805	316,345	523,624
Wayne.....	.....	.....	.....	.....	.....	21,539	40,720	21,101	2,000
Small mines.....	.....	.....	.....	.....	.....	.....	.....	.....	125,000
Totals.....	4,799,611	4,663,867	5,643,946	7,281,427	7,777,570	9,758,991	9,427,028	9,878,069	12,062,468

TABLE SHOWING THE COAL PRODUCTION, BY COUNTIES, FROM 1888 TO 1904, INCLUSIVE.—Continued.
(Tons of 2,240 lbs.)

COUNTIES.	1887	1888	1889	1900	1901	1902	1903	1904
Barbour	31,658	48,600	63,275	73,041	228,047	394,768	525,924	690,897
Brooke	42,196	56,793	63,176	61,386	65,904	55,867	24,266	37,804
Clay	2,963,061	3,940,286	4,446,469	4,547,002	5,375,702	5,724,862	4,075,224	5,650,217
Fayette	33,838	42,870	39,440	47,013	30,367	38,695	28,439	113,969
Hancock	221,249	271,554	413,150	647,430	1,068,715	1,662,144	2,106,336	2,445,202
Kanawha	1,042,745	1,213,116	1,293,068	1,456,960	1,727,115	1,863,366	1,878,732	2,792,078
Lincoln	1,963,632	1,639,625	2,322,983	2,925,907	2,674,553	3,172,194	2,666,914	31,744
Marion	162,396	165,874	233,800	242,176	199,633	201,179	270,276	2,785,360
Mason	111,535	109,204	108,867	85,367	98,427	113,527	102,282	89,009
McDowell	2,617,917	3,183,529	3,516,668	4,142,102	4,219,251	4,734,199	5,249,913	5,524,376
Mercer	873,300	1,004,379	1,144,258	1,046,337	1,062,153	1,104,523	1,274,003	1,274,070
Mineral	537,169	510,757	554,298	562,667	513,772	532,181	514,582	467,613
Mingo	267,789	383,280	350,234	466,695	501,410	635,113	964,494	1,153,013
Monongalia	31,288	68,867	56,703	82,148	75,589	130,371	148,074	194,540
Nicholas	95,578	96,912	119,940	96,610	115,830	12,199	7,645	25,723
Ohio	120,211	169,044	277,173	403,610	434,713	449,528	129,988	101,207
Preston	131,522	128,851	164,004	203,449	125,821	208,712	174,741	689,139
Putnam	63,701	79,815	93,370	68,390	102,089	272,106	244,068	285,914
Raleigh	178,367	180,532	249,103	103,207	167,883	265,687	388,467	406,226
Randolph	831,497	881,497	960,068	376,090	883,223	415,502	264,524	366,581
Taylor	135,929	140,000	150,000	1,068,874	938,304	1,011,435	1,073,967	284,502
Tucker				150,000	175,000	180,000	180,000	1,037,758
Small mines								170,000
Totals	11,705,829	14,294,865	16,250,150	18,386,911	20,290,991	23,359,083	22,913,068	26,964,715

ORDER IN THE PRODUCTION OF COAL.

COUNTY.	1897	1898	1899	1900	1901	1902	1903	1904
Fayette	1	1	1	1	1	1	2	1
McDowell	2	2	2	2	2	2	1	2
Marion	3	3	3	3	3	3	3	4
Kanawha	4	4	4	4	4	4	5	3
Mercer	5	5	5	6	6	6	6	6
Tucker	6	6	7	5	7	7	7	8
Harrison	9	9	8	7	5	5	4	5
Mineral	7	7	6	8	8	9	11	11
Mingo	8	8	9	9	9	8	8	7
Preston	13	11	10	10	10	10	9	10
Taylor	10	10	11	11	11	11	14	16
Marshall	11	12	12	12	13	16	13	14
Randolph				14	14	14	12	13
Putnam	12	13	13	13	15	15	16	15
Raleigh	16	16	16	19	17	13	15	12
Barbour	19	19	17	18	12	12	10	9
Ohio	15	15	14	15	16	17	18	19
Mason	14	14	15	16	18	19	19	20
Monongalia	20	17	19	17	19	18	17	17
Brooke	17	18	18	20	20	20	23	22
Hancock	18	20	20	21	21	21	20	21
Lincoln						23	21	23
Grant							22	18
Nicholas						22	24	24
Clay								25

TABLE SHOWING THE COMPARATIVE STATEMENTS OF
THE COAL PRODUCTIONS FOR 1903 AND 1904.

COUNTY.	1904	1903	Increase of 1904 over 1903	Decrease of 1904 under 1903
Brooke	37,804	24,266	13,538	
Hancock	69,700	70,495		795
Harrison	2,445,202	2,108,536	336,666	
Marion	2,785,360	2,668,914	116,446	
Monongalia	194,540	148,074	46,466	
Marshall	345,273	279,276	65,997	
Ohio	101,207	129,888		28,681
Clay	2,860		2,860	
Kanawha	2,792,078	1,878,752	913,326	
Lincoln	31,744	53,330		21,586
Mason	89,009	102,282		13,273
Putnam	295,914	178,904	117,010	
Fayette	5,650,217	4,075,324	1,574,893	
Nicholas	25,723	7,645	18,078	
Raleigh	406,226	244,088	162,138	
McDowell	5,524,376	5,249,913	274,463	
Mercer	1,274,070	1,274,003	67	
Mingo	1,153,013	864,464	288,549	
Barbour	690,897	525,924	164,973	
Grant	113,969	28,489	85,480	
Mineral	467,613	514,582		46,969
Preston	689,139	574,741	114,398	
Randolph	356,531	388,487		31,956
Taylor	234,502	264,524		30,022
Tucker	1,037,758	1,078,997		41,239
Totals	26,814,715	22,733,698	4,295,538	214,521
Small Mines	170,000	180,000		10,000
Grand Totals	26,984,715	22,913,698	4,295,538	224,521

ORDER IN THE PRODUCTION OF COAL AND COKE, BY COUNTIES, FOR THE YEAR ENDING JUNE 30TH, 1904.

DISTRICT	COUNTY	No. of Mines Producing Coal	Coal Production (Tons of 2,240 lbs.)			Coke Production (Tons of 2,000 lbs.)			Order in Production.	
			1st 6 Mos.	2nd 6 Mos.	Total coal produced for year.	1st 6 Mos.	2nd 6 Mos.	Total for the year.	Coal.	Coke.
First	Brooke	7	9,271	28,533	37,804				22	
First	Hancock	4	42,673	27,027	69,700				21	
First	Harrison	45	1,267,606	1,187,563	2,445,202			621	5	11
First	Marion	25	1,469,672	1,315,978	2,785,350	53,130	49,286	102,416	4	5
First	Monongalia	4	1,88,646	105,964	194,540	10,024	12,976	22,999	17	8
First	Marshall	5	191,707	153,566	345,273				14	
First	Ohio	6	53,619	47,588	101,207				19	
Second	Clay	1		2,890	2,890				25	
Second	Kanawha	100	1,848,514	1,443,564	2,792,078	3,435	6,112	9,547	3	10
Second	Lincoln	2	24,121	7,823	31,744				23	
Second	Mason	8	51,913	37,096	89,009				20	
Second	Putnam	7	129,939	165,975	295,914				15	
Third	Fayette	114	2,700,400	2,949,817	5,650,217	237,383	197,536	434,919	1	2
Third	Nichols	5	17,837	13,886	25,723				24	
Third	Raleigh	17	175,830	230,386	406,236				12	
Fourth	McDowell	66	2,573,479	2,945,897	5,524,376	566,504	603,696	1,170,200	2	1
Fourth	Mercer	17	573,174	2,700,896	1,274,070	95,537	94,585	190,122	6	4
Fourth	Mingo	31	574,307	578,706	1,153,013				7	
Fifth	Barbour	14	388,818	332,079	690,897	12,074	7,054	19,128	9	
Fifth	Grant	4	34,455	79,514	113,969				18	
Fifth	Mineral	12	221,022	246,011	467,013				11	
Fifth	Preston	20	377,293	311,846	689,139	23,901	3,710	27,611	10	7
Fifth	Randolph	8	190,075	166,456	356,531	45,460	31,608	77,077	13	6
Fifth	Taylor	6	116,891	117,611	234,502				16	
Fifth	Tucker	10	529,011	508,667	1,037,758	109,534	112,267	221,801	8	3
	Totals	538	13,106,636	13,705,079	26,811,715	1,157,578	1,118,873	2,276,451		
	Small mines	...	85,000	85,000	170,000					
	Grand Totals.	538	13,194,636	13,790,079	26,984,715	1,157,578	1,118,873	2,276,451		

PRODUCTION OF COAL AND COKE BY COUNTIES FOR YEAR ENDING JUNE 30th, 1904.

DISTRICT.	COUNTY.	Coal Production (Tons of 2,240 lbs.)			Distribution of Coal (Tons of 2,40 lbs.)			Coke Production (Tons of 2,000 lbs.)			Acres of Coal Worked Out.
		1st 6 Mos.	2nd 6 Mos.	Total Coal Produced for Year.	Used in Operation of Mine.	Furnished Trade and Tenants.	Used in Coke Ovens.	Quantity Shipped From Mine.	1st 6 Mos.	2nd 6 Mos.		Total for the year.
First	Brooke	9,271	28,533	37,804	208	533		37,043			7.29
First	Hancock	42,673	27,027	69,700	786	9,566		50,348			12.48
First	Harrison	1,257,699	1,187,593	2,445,292	24,188	8,101	810	2,412,163	587	34	621
First	Marion	1,469,372	1,315,978	2,785,350	47,822	15,292	169,685	2,562,541	53,130	49,286	102,416
First	Monongalia	88,646	105,894	194,540	5,886	3,228	34,992	150,434	10,024	12,975	22,969
First	Marshall	191,707	153,566	345,273	4,153	77,195		293,925			50.60
First	Ohio	53,619	47,588	101,207	1,405	13,871		85,841			18.53
Second	Clay		2,890	2,890		156		2,704			49
Second	Kanawha	1,348,514	1,443,564	2,792,078	32,005	32,270	19,159	2,708,554	3,435	6,112	9,547
Second	Lincoln	24,121	7,623	31,744	90	488		31,160			3.34
Second	Mason	51,913	37,086	88,999	3,128	29,359		56,522			15.77
Second	Putnam	129,939	165,975	295,914	1,765	2,412		291,737			44.93
Third	Fayette	2,700,400	2,949,817	5,650,217	67,548	67,413	655,645	4,859,611	237,383	197,536	434,919
Third	Nicholas	11,837	13,886	25,723	825	1,018		23,880			5.24
Third	Raleigh	173,830	239,396	413,226	4,571	6,615		395,040			82.46
Fourth	McDowell	2,578,479	2,945,897	5,524,376	54,443	48,692	1,670,046	3,751,285	596,504	603,696	1,170,200
Fourth	Mingo	573,174	700,896	1,274,070	6,046	9,457	284,957	973,080	95,537	94,365	190,182
Fourth	Barbour	354,307	353,706	708,013	5,845	11,279		1,135,880			173.45
Fifth	Grant	358,818	332,079	690,897	11,842	5,162	23,824	650,069	12,074	7,054	11.28
Fifth	Mineral	34,455	79,514	113,969	9,075	439		104,453			16.18
Fifth	Preston	221,902	249,011	470,913	602	2,747		464,264			55.83
Fifth	Randolph	377,293	311,846	689,139	19,294	8,216	41,921	619,798	23,901	3,710	27,611
Fifth	Taylor	190,075	166,456	356,531	3,611	3,011	100,144	247,396	45,469	31,098	77,077
Fifth	Tucker	116,801	117,611	234,412	1,845	1,147		231,550			23.82
Fifth	Tucker	529,061	508,697	1,037,758	17,994	41,691	332,098	645,405	109,534	112,297	221,801
Totals	Small mines	13,109,636	13,705,079	26,814,715	327,422	400,838	3,333,891	22,752,574	1,157,578	1,118,873	2,276,451
		85,000	85,000	170,000				170,000			
1904 Grand Totals.		13,194,636	13,790,079	26,984,715	327,422	400,838	3,333,891	22,922,574	1,157,578	1,118,873	2,276,451
1903 Grand Totals.		9,911,443	13,002,255	22,913,698	296,601	210,273	3,774,674	18,062,060	1,073,986	1,409,390	2,483,376
Changes		* 3,283,193	* 787,824	* 4,071,017	* 60,731	* 190,565	* 440,813	* 4,290,514	* 83,592	* 290,517	* 296,925

* Plus. †Minus.

PRODUCTION OF COAL AND COKE BY COUNTIES, FOR YEAR ENDING JUNE 30th, 1904.

NAME OF COMPANY.	NAME OF MINE.	Coal Production (Tons of 2,240 lbs			Distribution of Coal (Tons of 2,240 lbs.)			Production of Coke (Tons of 2,000 lbs.)					
		1st 6 mos.	2nd 6 mos.	Total Coal Produced for Year.	Used in operation of mine.	Furnished local trade and tenants.	Used in coke ovens.	Quantity Shipped from mine.	1st 6 mos.	2nd 6 mos.	Total for the year.		
<i>Brooke County.</i>													
Panhandle Coal Co....	Blanche	200	200	400				400					
Wiotia Coal Co....	Wiotia	1,500	1,500	3,000	200			2,800					
John J. Walsh	Lewis	6,071	6,071	12,143		598		11,607					
Wells Coal Co.	Bowman	1,500	1,500	3,000				3,000					
Beech Bottom Coal Co.	No. 1	7,143	7,143	14,286	8	17		7,118					
Lewis-Findley Coal Co.	Locust Grove		8,083	8,083				8,083					
La Belle Iron Works	La Belle Shaft		4,082	4,082				4,082					
Totals		9,271	28,533	37,804	208	593		37,043					
<i>Hancock County.</i>													
M. M. Cullen	Porter No. 1	4,484	4,484	8,928	72	8,856		42,010					
Marquet Coal Co.	Marquet No. 1	27,888	15,370	43,258	714	534		10,814					
Marquet No. 2		6,971	3,843	10,814				10,814					
Congo Coal Co.....	Brenneman	3,850	3,350	6,700		176		6,524					
Totals		42,673	27,027	69,700	786	9,566		56,348					
<i>Harrison County.</i>													
Clarksburg Fuel Co.	Pinnelkinnick	95,004	82,863	177,867	2,860	1,025		174,022					
"	Fall Run	16,801	20,080	36,881	83	9		36,238					
"	Dixie	12,772	10,770	23,542		252		23,290					
"	Two Lick	30,873	23,816	54,689	1,434	100		57,655					
"	Interstate	23,060	23,694	52,754	819	260		51,675					
"	O'Neil No. 1	27,516	24,068	51,584	919	341		50,324					
"	O'Neil No. 2	39,201	32,742	71,943	880	64		70,999					
Fairmont Coal Co.	Enterprise	69,029	63,628	132,657	2,193	933		129,481					
"	Viropia	42,018	38,316	80,334	12	253		80,069					
"	Ehlen	37,147	36,812	73,959	495	434		73,080					
"	Solon	31,155	32,178	63,333	555	90		62,688					
"	Gypsy & Harbert	65,307	58,312	123,619	3,910	879		123,830					
"	Maulsby	16,324	16,324	32,648				32,648					
"	Meadow Brook	36,247	36,247	72,494	686	393		71,420					
"	Farmington	29,867	11,465	41,332	353	229		40,800					
"	Glen Falls	29,863	10,815	40,678	428	336		39,416					
"	Dunham	23,823	27,380	51,203	623	71		50,456					

*Estimated.

Fairmont Coal Co.		8 312	8 045	16 357	67	810	16 290	587	34	621
Lynch	Reynoldsville	16 331	11 657	312	83	810	27 569	587	34	621
"	Columbia	63 685	55 080	118 765	303	810	117 014	587	34	621
"	Ocean	83 788	63 892	147 680	293	810	145 997	587	34	621
"	Riverdale	33 315	31 623	64 937	119	810	64 288	587	34	621
Pittsburg & Fairmont Fuel Co.	Perry Nos. 1 & 2	61 963	63 713	125 676	9	810	125 687	587	34	621
"	Perry No. 3	13 851	18 163	32 014	400	810	32 014	587	34	621
"	Perry	61 484	69 531	130 995	23	810	130 505	587	34	621
"	Lucas	8 055	18 983	27 040	23	810	27 014	587	34	621
Fairmont & Baltimore C. & C. Co.	Fairmore	39 420	28 452	67 872	100	810	67 082	587	34	621
"	Girard No. 1	46 433	46 433	92 866	100	810	92 831	587	34	621
"	Erie	36 325	36 325	72 650	102	810	72 650	587	34	621
"	Waldo	60 500	39 408	99 908	60	810	99 908	587	34	621
"	Cork	12 300	12 300	24 600	60	810	24 940	587	34	621
"	Rosebud	9 682	9 682	19 364	200	810	17 531	587	34	621
"	Byron Nos. 1 & 2	25 007	29 202	54 209	200	810	52 983	587	34	621
"	Phonix	8 305	8 305	16 610	200	810	8 962	587	34	621
"	O'Gara C. M. Co.	17 316	22 237	39 553	150	810	39 553	587	34	621
"	Lukans	12 448	17 013	29 461	65	810	28 754	587	34	621
"	Chieftain Nos. 1 & 2	2 071	10 100	12 171	65	810	11 955	587	34	621
"	Pitcairn Coal Co.	4 685	13 475	18 170	10	810	18 170	587	34	621
"	Harold C. & C. Co.	4 000	4 000	8 000	375	810	8 990	587	34	621
"	Harold	3 571	3 571	7 142	375	810	8 571	587	34	621
"	Girard No. 2	375	502	877	375	810	8 571	587	34	621
"	Dela	375	502	877	375	810	8 571	587	34	621
Totals.		1,257,609	1,187,593	2,445,202	8,101	810	2,412,103	587	34	621
Marion County.										
Fairmont Coal Co.	Murray	70 246	58 339	128 585	196	810	125 135	587	34	621
"	Montana	114 002	105 053	219 055	1,641	810	212 229	587	34	621
"	Aurora	8 487	8 487	16 974	315	810	8 267	587	34	621
"	West Fair Shaft.	110 230	101 320	211 550	1,370	810	205 381	587	34	621
"	O'Donnell	13 613	13 613	27 226	1	810	13 613	587	34	621
"	New England	144 193	112 414	256 607	2,270	810	250 140	587	34	621
"	Gaston	85 431	75 206	160 637	4,079	810	155 449	587	34	621
"	Monongah Nos. 2 & 5	127 397	123 291	250 688	3,698	810	247 704	587	34	621
"	Monongah No. 3	140 088	106 296	246 384	3,805	810	230 704	587	34	621
"	Monongah No. 6	98 060	78 574	176 634	1,980	810	167 538	587	34	621
"	Monongah	52 542	60 045	112 587	78	810	104 354	587	34	621
"	Parsons	15 877	14 514	30 391	651	810	30 173	587	34	621
"	Anderson	68 185	74 161	142 346	56	810	140 844	587	34	621
"	Highland	73 555	71 490	145 045	219	810	143 609	587	34	621
"	Middleton	48 088	42 899	90 987	93	810	89 303	587	34	621
"	Chieftain	59 474	43 472	102 946	399	810	100 449	587	34	621
"	Hutchinson	51 966	46 565	98 531	313	810	96 083	587	34	621
The Virginia & Pittsburg C. & C. Co.	King	72 555	73 448	146 003	2,000	810	121,100	7,672	6,530	14,202

*Shipped to Montana Mine for Coking purposes.

†Used in Monongah No. 2 ovens.

PRODUCTION OF COAL AND COKE FOR YEAR ENDING JUNE 30th, 1904.

NAME OF COMPANY.	NAME OF MINE.	Coal Production(Tons of 2,240 lbs.)			Distribution of Coal (Tons of 2,240 lbs.)			Production of Coke (Tons of 2,000 lbs.)	
		1st. 6 Mos.	2nd. 6 Mos.	Total Coal Produced for Year.	Used in operation of mine.	Furnished local trade and tenants.	Used in Coke Ovens.	Quantity shipped from mine.	1st 6 Mos. 2nd for the Year.
<i>Marion County—Continued.</i>									
Georges Creek C. & I. Co.	Chatham Nos. 1 & 2	59,149	63,609	122,758	2,000	400	21,890	98,498	3,140 8,876 12,016
Federal C. & C. Co.	Federal No. 1	26,786	22,321	49,107	3,572	.....	.....	45,535	.....
New Central Coal Co.	Stafford	19,348	23,545	42,893	3,000	200	.....	39,893	.....
Kilarm C. & C. Co.	Kilarm	8,902	8,903	17,805	.....	89	.....	17,716	.....
Powell C. & C. Co.	Powell	3,000	6,000	9,000	300	450	8,250	.....	1,800 3,600 5,400
Totals.		1,469,372	1,315,978	2,785,350	47,822	15,292	169,695	2,552,541	53,130 49,286 102,416
<i>Monongalia County.</i>									
Opokiska C. & C. Co.	Opokiska	19,793	15,946	35,739	.....	178	.....	35,561	.....
Fairmont Coal Co.	Beechwood	43,075	44,526	87,601	763	179	22,825	63,834	5,462 8,412 13,874
West Virginia Coal Co.	Richard	18,636	18,636	37,272	4,320	2,604	12,167	18,181	4,562 4,563 9,125
Decker's Creek C. & C. Co.	Decker's Creek	7,142	26,736	33,878	803	297	.....	32,858	.....
Totals.		88,646	105,894	194,540	5,886	3,228	34,992	150,434	10,024 12,975 22,999
<i>Marshall County.</i>									
Hitchman C. & C. Co.	Hitchman	80,893	70,321	151,184	1,472	1,249	.....	148,463	.....
Boggs Run M. & M'g Co.	Boggs Run	26,082	16,562	42,644	446	3,571	.....	38,627	.....
Wheeling Steel & Iron Co.	Benwood	29,971	32,097	62,068	.....	62,068	.....	.....	.....
Glendale Coal Co.	Glendale	30,896	18,162	49,058	400	.....	.....	48,628	.....
Mound Coal Co.	Moundsville.	23,925	16,424	40,349	1,835	10,307	.....	28,207	.....
Totals.		191,707	153,566	345,273	4,153	77,195	.....	293,925	.....
<i>Ohio County.</i>									
Jochum & Co.	Central	2,678	2,679	5,357	21	5,336	.....	.....	.....
W. H. Kasley	Whitaker	6,395	8,870	15,265	89	.....	.....	15,166	.....
Richland Coal Co.	Richland	13,848	10,689	24,537	.....	323	.....	24,214	.....
The Elm Grove Coal Co.	Elm Grove Shaft.	17,977	18,142	36,119	1,385	2,228	.....	32,506	.....
Raymann Brewing Co.	Manchester	2,990	2,990	5,984	.....	5,984	.....	.....	.....
Wheeling Steam C. Co.	McKinley	9,746	4,239	13,985	.....	.....	.....	13,955	.....
Totals.		53,619	47,588	101,207	1,495	13,871	.....	85,841	.....

Dorfee C. M. Co.		Elk Manor		2,800	2,800	2,800	156	2,704	2,704		
Totals				2,800	2,800	2,800	156	2,704	2,704		
Kanawha County											
Falling Rock Cannel C. Co.				4,128	2,763	6,801	88	6,715	6,715		
The Keystone Coal Co.				7,600	14,680	22,288	17	22,263	22,263		
The Elk Coal Co.				12,442	8,750	21,192	19	21,173	21,173		
				15,415	11,488	26,903	1,927	24,976	24,976		
Lucas-Ray Coal Co.					1,536	3,777		3,706	3,706		
Jefferson C. & C. Co.					3,777	8,777	71	8,706	8,706		
Pen-Mar M. Co.					4,251	9,890	21	9,869	9,869		
Sycamore Nos. 1, 2 & 3.					2,138	5,038		5,038	5,038		
Mill Creek				6,857		11,895	151	11,678	11,678		
Black Hawk				8,759		8,759	68	8,618	8,618		
Caldenwood				8,081		28,422	215	28,704	28,704		
No. 1				27,827		38,242	1,473	34,085	34,085		
Blk. Diamond				60,115		13,218	108	12,871	12,871		
K. & H. No. 101				6,174		19,554		19,554	19,554		
K. & H. No. 103				10,715		56,082	416	55,114	55,114		
K. & H. No. 104				24,238		28,835	802	28,083	28,083		
K. & H. No. 105				9,223		13,834		13,082	13,082		
K. & H. No. 106				4,968		95,628	902	93,486	93,486		
K. & H. No. 108				31,107		74,406	1,428	71,728	71,728		
K. & H. No. 109				31,573		13,048		13,048	13,048		
K. & H. No. 110				1,993		13,452		13,452	13,452		
K. & H. No. 119				21,656		34,691	320	33,299	33,299		
Kellys Creek				5,674		5,674		5,674	5,674		
Cannelton No. 2				15,137		16,158	39	15,474	15,474		
The Willis C. & C. Co.				47,447		101,534	1,807	78,722	78,722		
The Marinet Co.				47,440		54,910	2,410	3,155	3,155		
				400		54,910		51,046	51,046		
				26,274		94,091	1,381	93,391	93,391		
				47,973		74,076	1,482	72,473	72,473		
				39,972		13,812		13,812	13,812		
				6,753		74,657	1,338	71,113	71,113		
Winifrede Coal Co.				38,040		77,310	2,186	75,078	75,078		
				38,999		20,355		18,439	18,439		
				6,509		20,355		20,355	20,355		
Coalburg Colliery Co.				14,392		22,121	1,064	21,062	21,062		
Stevens Coal Co.				11,607		22,321	669	21,652	21,652		
				44,643		89,296	714	88,572	88,572		
				54,464		82,143		82,143	82,143		
Shamrock Coal Co.				27,679		5,988		5,988	5,988		
Dry Branch Coal Co.				11,213		18,917		18,917	18,917		
Belleclare Coal Co.				5,371		35,917		35,917	35,917		
				18,340		18,028		18,028	18,028		
Cardiff Coal Co.				13,368		25,089	428	24,438	24,438		

*Estimated.

PRODUCTION OF COAL AND COKE FOR YEAR ENDING JUNE 30th, 1904—Continued.

NAME OF COMPANY.	NAME OF MINE.	Coal Production (Tons of 2,240 lbs.)			Distribution of Coal (Tons of 2,240 lbs.)				Production of Coke (Tons of 2,000 lbs.)	
		1st 6 mos.	2nd 6 mos.	Total Produced for year.	Used in opera- tion of mine.	Furnished local trade and ten- ants.	Used in coke ovens.	Quantity shipped from mine.	1st 6 mos. 6 mos.	Total for the year.
<i>Kanawha County—Continued.</i>										
Cardiff Coal Co.	Climax	6,339	10,133	16,472	108	160		16,204		
	Horton		5,732	5,732	89	89		5,554		
	Holly	9,010	9,570	18,580		137		18,443		
	Quarrier	7,147	19,117	26,264		196		26,068		
	Red Warrior	2,153	11,747	13,900				13,900		
	Cherokee Coal Co.	20,122	29,464	49,586		881		48,705		
	Wake Forest M. Co.	18,066	20,666	38,732				38,732		
	Leewood Colliery Co.	15,086	9,473	24,559	589	294		23,676		
	M. T. Davis Coal Co.		8,649	8,649				8,649		
	Caledonian C. & C. Co.		1,562	1,562		8		1,554		
	Thistle Coal Co.	7,983	16,078	24,071				24,071		
	Peerless	1,964	5,321	7,285		165		7,120		
	La Mont Nos. 1 & 2		2,515	2,515		100		2,415		
	South & North	45,799	101,047	146,846	883	446		145,507		
	West		16,732	16,732	178	288		16,286		
	Republic Coal Co.		37,746	75,855	201	312		75,342		
	West Virginia Colliery Co.		17,701	17,701				17,701		
	No. 2		10,884	55,737				55,737		
	Raccoon	38,109	24,896	63,005	106			62,520		
	United	30,841	16,094	46,935		26		46,742		
	Cabin Creek Nos. 1 & 2	45,280	41,713	86,993	1,339	892		84,742		
	Cabin Creek M. Co.	5,635	5,868	11,503		1,184		10,319		
	Robinson Coal Co.	19,864	24,396	44,260				44,260		
	No. 5		5,863	11,250	64	160	564	10,462	280	316
	East Bank	5,357	15,214	35,321	300	300		34,721		
	Coalburg & Lewiston	20,107	4,824	9,648				9,648		
	Belmont Coal Co.		13,757	28,708	1,606	178		28,924		
	Pine Grove	4,824	4,824	9,648				9,648		
	Equitable Coal Co.	14,951	7,951	22,902		26		22,876		
	The Pawnee Coal Co.	3,000	4,951	7,951		1,761		6,190		
	Scranston	35,709	20,166	55,875	1,070	241		53,044		
	Paint Creek Coal Co.	35,433	25,709	61,142	1,070	207		59,861		
	Paint Creek	16,875	18,100	34,975	98	156		34,619		
	Standard	1,063	10,197	11,260				11,104		
	Groese Colliery Co.	19,642	19,301	38,943	356	356		38,231		
	Imperial Colliery Co.		10,322	19,832		328		19,504		
	Nos. 1 & 2	9,010	5,665	14,675		111		14,564		
	Gas No. 2		5,665	5,665		79		5,586		
	Wacoah Coal Co.		4,911	4,911				4,911		
	Detroit & Kanawha C. Co.		13,983	13,983				13,983		
	Morton		3,061	3,061				3,061		
	Nuckolls C. & C. Co.		48,707	97,424	374	653		96,392		
	Chesapeake M. Co.	48,717								

Kanawha County—Continued.										
Montgomery Coal Co.	15,597	19,952	35,549	250	800	.....	.....	34,499	.....	.....
Kanawha & Coal River C. Co.	51,723	43,253	94,976	1,473	2,357	.....	.....	91,146	.....	.....
" " " " "	8,451	9,637	18,068	223	.....	.....	.....	17,865	.....	.....
" " " " "	3,694	5,925	9,619	223	.....	.....	.....	9,396	.....	.....
" " " " "	.....	.....	4,148	84	67	.....	.....	3,997	.....	.....
Carlin	.....	883	2,679	7	.....	.....	.....	2,672	.....	.....
West Virginia Peerless C. Co.	1,786	.....	1,206	.....	.....	.....	.....	1,206	.....	.....
Hughes Creek Coal Co.	.....	18,000	21,000	.....	1,000	.....	.....	20,000	.....	.....
Morris Creek Coal Co.	3,000	.....	.....	.....	.....	.....	.....	.....	.....	.....
Totals.....	1,348,514	1,443,564	2,792,078	32,095	32,270	19,159	2,708,554	3,435	6,112	9,547
Lincoln County.										
Rochester Coal Co.	5,830	2,821	8,651	66	88	.....	8,497	.....	.....	.....
Lincoln Coal Co.	18,291	4,802	23,093	.....	400	.....	22,693	.....	.....	.....
Totals.....	24,121	7,623	31,744	66	488	.....	31,190	.....	.....	.....
Mason County.										
Mason City Mining Co.	2,381	1,191	3,572	.....	357	.....	3,215	.....	.....	.....
Liverpool Salt & Coal Co.	8,571	8,571	17,142	2,570	656	.....	13,916	.....	.....	.....
Hartford	6,646	2,813	9,459	.....	9,459	.....	.....	.....	.....	.....
Consumers C. & M. Co.	17,001	10,903	27,904	383	14,942	.....	12,569	.....	.....	.....
Camden Clay Co.	1,796	1,450	3,236	.....	3,236	.....	.....	.....	.....	.....
Klondike Coal Co.	3,554	3,918	7,482	32	174	.....	7,276	.....	.....	.....
Beech Grove Coal Co.	9,295	7,143	16,438	183	535	.....	15,760	.....	.....	.....
Thos. D. Harris.	2,679	1,107	3,785	.....	.....	.....	3,786	.....	.....	.....
Totals.....	51,913	37,096	89,009	3,128	29,359	.....	56,522	.....	.....	.....
Putnam County.										
Plymouth C. & M. Co.	37,524	38,291	75,815	840	1,053	.....	73,902	.....	.....	.....
Manilla	9,715	16,149	25,864	249	1,124	.....	25,491	.....	.....	.....
Pocatolico	30,547	25,725	56,272	300	.....	.....	55,972	.....	.....	.....
The Otto-Marmet C. & M. Co.	16,528	40,230	44,232	.....	852	.....	59,968	.....	.....	.....
Big Otto Nos. 1 & 2	35,298	41,518	76,786	356	312	.....	76,118	.....	.....	.....
Black Betsy C. & M. Co.	35,298	41,518	76,786	356	312	.....	76,118	.....	.....	.....
The Oak Forest C. & M. Co.	357	.....	357	.....	71	.....	286	.....	.....	.....
Totals.....	129,839	165,975	285,914	1,765	2,412	.....	291,737	.....	.....	.....
Fayette County.										
Kanawha & Hocking C. & C. Co.	56,331	27,101	83,432	820	536	28,124	53,952	10,000	10,000	21,100
" " " " "	58,493	54,191	112,624	982	536	28,124	82,982	10,000	10,000	20,000
" " " " "	56,790	56,491	113,271	2,678	1,072	28,678	46,843	22,350	22,350	44,700
" " " " "	80,719	67,275	147,994	1,340	802	59,152	86,700	22,125	22,125	44,250
" " " " "	27,613	26,705	54,318	.....	.....	.....	54,318	.....	.....	.....
" " " " "	39,150	22,112	61,262	714	357	5,916	54,275	.....	4,418	4,418
Columbus Iron & Steel Co.	59,821	117,857	177,675	.....	758	.....	117,099	.....	.....	.....
Kanawha Gas C. Co.	33,928	50,893	84,821	89	312	.....	84,509	.....	.....	.....
W. R. Johnson Co.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Boomer No. 1.....	15,675	.....	15,675	.....	.....	.....	15,586	.....	.....	.....

PRODUCTION OF COAL AND COKE FOR YEAR ENDING JUNE 30th, 1904.

NAME OF COMPANY.	NAME OF MINE.	Coal Production (Tons of 2,240 lbs.)			Distribution of Coal (Tons of 2,240 lbs.)			Production of Coke (Tons of 2,000 lbs.)			
		1st 6 mos.	2nd 6 mos.	Total coal produced for year	Used in opera- tion of mine.	Furnished local trade and ten- ants.	Used in coke ovens.	Quantity shipped from mine.	1st 6 mos.	2nd 6 mos.	Total for the year.
Fayette County—Continued.											
Boomer C. & C. Co.	Boomer No. 2	56,903	40,494	97,397	356	1,607	.....	96,741	.....	.....	.....
.....	Boomer No. 3	42,407	47,086	89,493	.....	.....	.....	87,886	.....	.....	.....
Gordon C. & C. Co.	Eureka No. 5	28,304	29,464	57,768	862	982	.....	55,894	.....	.....	.....
.....	Eureka No. 1	3,750	4,018	7,768	.....	.....	.....	7,768	.....	.....	.....
.....	Eureka No. 2	22,143	20,538	42,679	.....	.....	.....	42,679	.....	.....	.....
.....	St. Clair No. 1	6,125	5,841	11,966	.....	.....	.....	10,959	.....	.....	.....
.....	St. Clair No. 2	13,195	14,782	27,977	.....	.....	.....	24,534	.....	.....	.....
.....	Central No. 1	9,401	9,192	18,593	.....	.....	.....	13,688	.....	.....	.....
Mecca C. & C. Co.	Mecca No. 2	25,505	22,948	48,453	400	.....	.....	48,053	.....	.....	.....
.....	Mecca No. 5	14,647	14,692	29,339	.....	.....	.....	28,750	.....	.....	.....
Economy Fuel Co.	Eagle or No. 1	11,607	15,143	26,750	178	.....	.....	25,680	.....	.....	.....
W. R. Johnson	Eagle or No. 2	6,430	2,298	8,696	235	.....	.....	7,028	.....	.....	.....
.....	Gas or No. 2	7,103	4,674	11,777	.....	.....	.....	11,777	.....	.....	.....
.....	No. 5 or Splint	20,822	17,821	38,643	535	.....	.....	37,427	.....	.....	.....
Carver Bros. Co.	No. 5	17,523	14,168	31,691	.....	.....	.....	31,335	.....	.....	.....
.....	Eagle, Cal. & Nos. 1, 2, 3	48,142	38,902	85,044	1,518	.....	.....	78,678	.....	.....	.....
The Mt. Carbon Co. Ltd.	Vulcan	39,152	34,400	73,552	478	2,990	.....	36,351	.....	.....	.....
.....	South	12,518	10,461	22,979	.....	.....	.....	10,977	.....	.....	.....
.....	Excelsior	11,182	11,717	22,899	.....	.....	.....	22,761	.....	.....	.....
The Gt. Kanawha Col. Co. Ltd.	Digby	16,175	11,158	27,333	.....	.....	.....	27,333	.....	.....	.....
.....	No. 1 or Brewster	12,278	9,370	21,648	.....	.....	.....	18,256	.....	.....	.....
.....	Edwards	5,814	2,810	8,624	.....	.....	.....	7,330	.....	.....	.....
.....	No. 5	5,845	6,220	12,065	.....	.....	.....	12,065	.....	.....	.....
Cardiff Coal Co.	Kimberly Nos. 1 & 2	23,109	24,349	47,458	600	.....	.....	46,558	.....	.....	.....
.....	Columbia	7,737	7,737	15,474	.....	.....	.....	10,577	.....	.....	.....
The Gauley Mt. Coal Co.	Gauley Mt. Nos. 1 & 2	136,134	130,520	266,654	3,049	.....	.....	218,558	.....	.....	.....
Newcastle Coal Co.	Gaymont	17,857	13,634	31,491	300	.....	.....	30,891	.....	.....	.....
The Isabel C. & C. Co.	Elmo	4,518	6,082	10,600	1,500	.....	.....	8,900	.....	.....	.....
.....	Sunnyvale	2,872	4,191	7,063	.....	.....	.....	6,963	.....	.....	.....
Michigan Coal Co.	Michigan	12,002	10,298	22,300	300	.....	.....	21,340	.....	.....	.....
The Fayette C. & C. Co.	Fayette	14,386	18,844	33,230	.....	.....	.....	30,970	.....	.....	.....
The Low Moor Iron Co.	Kay Moor No. 1	56,791	50,680	107,471	2,400	.....	.....	49,557	.....	.....	.....
.....	Kay Moor No. 2	9,646	9,010	17,656	120	.....	.....	16,666	.....	.....	.....
Mt. R. & Consumers C. Co.	Newlyn	9,000	11,000	20,000	.....	.....	.....	19,500	.....	.....	.....
Nuttallburg C. & C. Co.	Nuttallburg	13,710	18,156	31,866	300	.....	.....	31,366	.....	.....	.....
.....	Keesey's Creek	5,929	8,167	14,096	.....	.....	.....	14,096	.....	.....	.....
Brown Coal Co.	Brown's	20,254	24,029	44,283	90	.....	.....	53,963	.....	.....	.....
Boone C. & C. Co.	Boone	7,400	16,190	23,590	.....	.....	.....	23,465	.....	.....	.....

	Ballinger No. 1.	Blume C. & C. Co.	Blume No. 2.	Smokeless	Dubree	North Side.	South Side.	Elverton.	Cliff Top.	Cumard.	Brooklyn.	Red Ash.	Bush Run.	Sun No. 1.	Sun No. 2.	Fire Creek.	Echo Ck.	The Thurmond Coal Co.	Beury C. & C. Co.	Big Bend Coal Co.	Beechwood C. & C. Co.	Alaska C. & C. Co.	New River Colliery Co.	Ephraim Creek C. & C. Co.	Harvey C. & C. Co.	Macdonald Colliery Co.	Wright Creek C. & C. Co.	Mc Hopkins C. & C. Co.	The White Oak Fuel Co.	Quinnimont C. Co.	Glendale Cullery Co.	Robins Coal Co.	Laurel Creek Coal Co.									
Ballinger No. 1.	11,693	5,324	28,432	13,136	21,000	30,000	26,669	8,855	21,295	37,580	42,491	58,384	17,779	13,020	22,043	14,000	19,473	7,522	16,700	43,638	75,000	58,822	46,325	119,900	84,813	37,179	68,156	3,304	28,375	33,265	39,154	73,265	64,727	53,363	55,380	2,982	19,683	2,985	27,946	11,157	5,670	13,000
Blume C. & C. Co.	5,324	28,432	13,136	21,000	30,000	26,669	8,855	21,295	37,580	42,491	58,384	17,779	13,020	22,043	14,000	19,473	7,522	16,700	43,638	75,000	58,822	46,325	119,900	84,813	37,179	68,156	3,304	28,375	33,265	39,154	73,265	64,727	53,363	55,380	2,982	19,683	2,985	27,946	11,157	5,670	13,000	
Blume No. 2.	28,432	13,136	21,000	30,000	26,669	8,855	21,295	37,580	42,491	58,384	17,779	13,020	22,043	14,000	19,473	7,522	16,700	43,638	75,000	58,822	46,325	119,900	84,813	37,179	68,156	3,304	28,375	33,265	39,154	73,265	64,727	53,363	55,380	2,982	19,683	2,985	27,946	11,157	5,670	13,000		
Smokeless	21,000	30,000	26,669	8,855	21,295	37,580	42,491	58,384	17,779	13,020	22,043	14,000	19,473	7,522	16,700	43,638	75,000	58,822	46,325	119,900	84,813	37,179	68,156	3,304	28,375	33,265	39,154	73,265	64,727	53,363	55,380	2,982	19,683	2,985	27,946	11,157	5,670	13,000				
Dubree	30,000	26,669	8,855	21,295	37,580	42,491	58,384	17,779	13,020	22,043	14,000	19,473	7,522	16,700	43,638	75,000	58,822	46,325	119,900	84,813	37,179	68,156	3,304	28,375	33,265	39,154	73,265	64,727	53,363	55,380	2,982	19,683	2,985	27,946	11,157	5,670	13,000					
North Side.	26,669	8,855	21,295	37,580	42,491	58,384	17,779	13,020	22,043	14,000	19,473	7,522	16,700	43,638	75,000	58,822	46,325	119,900	84,813	37,179	68,156	3,304	28,375	33,265	39,154	73,265	64,727	53,363	55,380	2,982	19,683	2,985	27,946	11,157	5,670	13,000						
South Side.	8,855	21,295	37,580	42,491	58,384	17,779	13,020	22,043	14,000	19,473	7,522	16,700	43,638	75,000	58,822	46,325	119,900	84,813	37,179	68,156	3,304	28,375	33,265	39,154	73,265	64,727	53,363	55,380	2,982	19,683	2,985	27,946	11,157	5,670	13,000							
Elverton.	21,295	37,580	42,491	58,384	17,779	13,020	22,043	14,000	19,473	7,522	16,700	43,638	75,000	58,822	46,325	119,900	84,813	37,179	68,156	3,304	28,375	33,265	39,154	73,265	64,727	53,363	55,380	2,982	19,683	2,985	27,946	11,157	5,670	13,000								
Cliff Top.	37,580	42,491	58,384	17,779	13,020	22,043	14,000	19,473	7,522	16,700	43,638	75,000	58,822	46,325	119,900	84,813	37,179	68,156	3,304	28,375	33,265	39,154	73,265	64,727	53,363	55,380	2,982	19,683	2,985	27,946	11,157	5,670	13,000									
Cumard.	42,491	58,384	17,779	13,020	22,043	14,000	19,473	7,522	16,700	43,638	75,000	58,822	46,325	119,900	84,813	37,179	68,156	3,304	28,375	33,265	39,154	73,265	64,727	53,363	55,380	2,982	19,683	2,985	27,946	11,157	5,670	13,000										
Brooklyn.	58,384	17,779	13,020	22,043	14,000	19,473	7,522	16,700	43,638	75,000	58,822	46,325	119,900	84,813	37,179	68,156	3,304	28,375	33,265	39,154	73,265	64,727	53,363	55,380	2,982	19,683	2,985	27,946	11,157	5,670	13,000											
Red Ash.	17,779	13,020	22,043	14,000	19,473	7,522	16,700	43,638	75,000	58,822	46,325	119,900	84,813	37,179	68,156	3,304	28,375	33,265	39,154	73,265	64,727	53,363	55,380	2,982	19,683	2,985	27,946	11,157	5,670	13,000												
Bush Run.	22,043	14,000	19,473	7,522	16,700	43,638	75,000	58,822	46,325	119,900	84,813	37,179	68,156	3,304	28,375	33,265	39,154	73,265	64,727	53,363	55,380	2,982	19,683	2,985	27,946	11,157	5,670	13,000														
Sun No. 1.	14,000	19,473	7,522	16,700	43,638	75,000	58,822	46,325	119,900	84,813	37,179	68,156	3,304	28,375	33,265	39,154	73,265	64,727	53,363	55,380	2,982	19,683	2,985	27,946	11,157	5,670	13,000															
Sun No. 2.	19,473	7,522	16,700	43,638	75,000	58,822	46,325	119,900	84,813	37,179	68,156	3,304	28,375	33,265	39,154	73,265	64,727	53,363	55,380	2,982	19,683	2,985	27,946	11,157	5,670	13,000																
Fire Creek.	7,522	16,700	43,638	75,000	58,822	46,325	119,900	84,813	37,179	68,156	3,304	28,375	33,265	39,154	73,265	64,727	53,363	55,380	2,982	19,683	2,985	27,946	11,157	5,670	13,000																	
Echo Ck.	16,700	43,638	75,000	58,822	46,325	119,900	84,813	37,179	68,156	3,304	28,375	33,265	39,154	73,265	64,727	53,363	55,380	2,982	19,683	2,985	27,946	11,157	5,670	13,000																		
The Thurmond Coal Co.	8,717	18,841	24,246	11,000	30,205	21,725	8,807	28,558	401	28,558	160	36,600	29,689	29,689	28,885	28,885	160	36,600	29,689	29,689	28,885	28,885	160	36,600	29,689	29,689	28,885	28,885	160	36,600	29,689	29,689	28,885	28,885	160	36,600	29,689	29,689	28,885	28,885	160	36,600
Beury C. & C. Co.	22,043	14,000	19,473	7,522	16,700	43,638	75,000	58,822	46,325	119,900	84,813	37,179	68,156	3,304	28,375	33,265	39,154	73,265	64,727	53,363	55,380	2,982	19,683	2,985	27,946	11,157	5,670	13,000														
Big Bend Coal Co.	14,000	19,473	7,522	16,700	43,638	75,000	58,822	46,325	119,900	84,813	37,179	68,156	3,304	28,375	33,265	39,154	73,265	64,727	53,363	55,380	2,982	19,683	2,985	27,946	11,157	5,670	13,000															
Beechwood C. & C. Co.	19,473	7,522	16,700	43,638	75,000	58,822	46,325	119,900	84,813	37,179	68,156	3,304	28,375	33,265	39,154	73,265	64,727	53,363	55,380	2,982	19,683	2,985	27,946	11,157	5,670	13,000																
Alaska C. & C. Co.	16,700	43,638	75,000	58,822	46,325	119,900	84,813	37,179	68,156	3,304	28,375	33,265	39,154	73,265	64,727	53,363	55,380	2,982	19,683	2,985	27,946	11,157	5,670	13,000																		
New River Colliery Co.	1,750	1,750	70,421	75,000	58,822	46,325	119,900	84,813	37,179	68,156	3,304	28,375	33,265	39,154	73,265	64,727	53,363	55,380	2,982	19,683	2,985	27,946	11,157	5,670	13,000																	
Ephraim Creek C. & C. Co.	43,638	75,000	58,822	46,325	119,900	84,813	37,179	68,156	3,304	28,375	33,265	39,154	73,265	64,727	53,363	55,380	2,982	19,683	2,985	27,946	11,157	5,670	13,000																			
Harvey C. & C. Co.	75,000	58,822	46,325	119,900	84,813	37,179	68,156	3,304	28,375	33,265	39,154	73,265	64,727	53,363	55,380	2,982	19,683	2,985	27,946	11,157	5,670	13,000																				
Macdonald Colliery Co.	58,822	46,325	119,900	84,813	37,179	68,156	3,304	28,375	33,265	39,154	73,265	64,727	53,363	55,380	2,982	19,683	2,985	27,946	11,157	5,670	13,000																					
Wright Creek C. & C. Co.	46,325	119,900	84,813	37,179	68,156	3,304	28,375	33,265	39,154	73,265	64,727	53,363	55,380	2,982	19,683	2,985	27,946	11,157	5,670	13,000																						
Mc Hopkins C. & C. Co.	119,900	84,813	37,179	68,156	3,304	28,375	33,265	39,154	73,265	64,727	53,363	55,380	2,982	19,683	2,985	27,946	11,157	5,670	13,000																							
The Star C. & C. Co.	84,813	37,179	68,156	3,304	28,375	33,265	39,154	73,265	64,727	53,363	55,380	2,982	19,683	2,985	27,946	11,157	5,670	13,000																								
Collins Nos 1 and 2.	37,179	68,156	3,304	28,375	33,265	39,154	73,265	64,727	53,363	55,380	2,982	19,683	2,985	27,946	11,157	5,670	13,000																									
Whipple Colliery Co.	68,156	3,304	28,375	33,265	39,154	73,265	64,727	53,363	55,380	2,982	19,683	2,985	27,946	11,157	5,670	13,000																										
McCall C. & C. Co.	3,304	28,375	33,265	39,154	73,265	64,727	53,363	55,380	2,982	19,683	2,985	27,946	11,157	5,670	13,000																											
Laura Mining Co.	28,375	33,265	39,154	73,265	64,727	53,363	55,380	2,982	19,683	2,985	27,946	11,157	5,670	13,000																												
Dunn Loop C. & C. Co.	33,265	39,154	73,265	64,727	53,363	55,380	2,982	19,683	2,985	27,946	11,157	5,670	13,000																													
The Turkey Knob C. Co.	39,154	73,265	64,727	53,363	55,380	2,982	19,683	2,985	27,946	11,157	5,670	13,000																														
Macdonald Colliery Co.	73,265	64,727	53,363	55,380	2,982	19,683	2,985	27,946	11,157	5,670	13,000																															
Wright Creek C. & C. Co.	64,727	53,363	55,380	2,982	19,683	2,985	27,946	11,157	5,670	13,000																																
Mc Hopkins C. & C. Co.	55,380	2,982	19,683	2,985	27,946	11,157	5,670	13,000																																		
The White Oak Fuel Co.	2,982	19,683	2,985	27,946	11,157	5,670	13,000																																			
Quinnimont C. Co.	19,683	2,985	27,946	11,157	5,670	13,000																																				
Glendale Cullery Co.	2,985	27,946	11,157	5,670	13,000</																																					

*Estimated.

PRODUCTION OF COAL AND COKE FOR YEAR ENDING JUNE 30th, 1904—Continued.

NAME OF COMPANY.		NAME OF MINE.		Coal Production (Tons of 2,240 lbs.)			Distribution of Coal (Tons of 2,240 lbs.)				Production of Coke (Tons of 2,000 lbs.)		
		1st 6 mos.	2nd 6 mos.	Total coal Produced for Year.	Used in opera- tion of mine.	Furnished local trade and ten- ants.	Used in coke ovens.	Quantity shipped from mine.	1st 6 mos.	2nd 6 mos.	Total for the year.		
<i>Fayette County—Continued.</i>													
Greenwood C. & C. Co.	Greenwood	42,342	43,396	85,738	500	2,890	2,435	80,003	1,928		1,928		
Hemlock Hollow C. & C. Co.	Hemlock Hollow	10,069	12,464	22,533		334		22,189			3,625		
W. P. Rend.	Rend Nos. 1, 2, 3, 4 & 5	98,482	115,225	213,707		2,000	6,075	205,632	1,910	1,715			
Ganoca Coal Co.	Ganoca	15,588	11,637	27,225		298		26,937					
Delta Colliery Co.	Delta	4,624	9,240	13,914	201	214		13,499					
Lynchburg Colliery Co.	Lynchburg		11,230	11,230	200			11,090					
Totals		2,700,400	2,949,817	5,650,217	67,548	67,413	655,645	4,859,811	237,388	197,536	434,919		
<i>Nicholas County.</i>													
Bell Creek Coal Co.	Bell Creek	10,714	5,735	16,499	535	802		15,162					
Raven C. & C. Co.	No. 8		298	298		8		290					
The Cambria M. Co.	Cambria	1,077	3,429	4,506	298	108		4,130					
Mt. Carmel C. & C. Co.	Mt. Carmel		3,733	3,733	22	22		3,689					
The National C. & C. Co.	National	46	671	717		78		639					
Totals		11,837	12,886	25,723	825	1,018		23,880					
<i>Raleigh County.</i>													
The New River Smokeless C. Co.	Royal	15,286	17,150	32,436	498	356		31,562					
Raleigh C. & C. Co.	Lanark Nos. 1 & 2	15,300	20,174	35,564	760	290		34,524					
The Wright C. & C. Co.	Raleigh Nos. 1, 2, 3 & 4	58,115	79,633	137,748	2,100	1,362		134,226					
Wright No. 1	Wright No. 1	28,202	25,869	53,561		623		52,988					
Pack No. 2	Pack No. 2	7,924	10,731	18,655		228		18,427					
Piney Colliery	Piney No. 1	16,345	12,967	29,342	520	48		28,774					
"	Davis No. 2	11,865	15,280	27,165		43		27,122					
"	Knob Branch	1,663	4,988	6,651	53	15		6,583					
Stonewall C. & C. Co.	Terry	1,250	2,500	3,750		50		2,460					
"	Nos. 2 & 3	10,228	18,224	28,462	240	380		27,862					
Mabscott C. & C. Co.	Mabscott	3,500	6,000	9,500	250	3,050		6,200					
McKell C. & C. Co.	Oswald	6,042	18,600	24,642	100	200		24,342					
Totals		175,830	230,396	406,226	4,571	6,615		395,040					
<i>McDowell County.</i>													
The Tidewater C. & C. Co.	Tidewater	57,293	69,797	127,090	977	1,021	24,019	101,073	8,830	9,104	17,934		
Bottom Creek C. & C. Co.	Bottom Creek	92,022	53,946	145,968			27,160	118,808	11,850	9,245	21,095		
Peetless C. & C. Co.	Peetless	72,309	63,204	135,513			34,276	101,237	14,232	11,946	26,178		

PRODUCTION OF COAL AND COKE BY COUNTIES FOR YEAR ENDING JUNE 30th, 1904.

NAME OF COMPANY.	NAME OF MINE.	Coal Production (Tons of 2,240 lbs.)			Distribution of Coal (Tons of 2,240 lbs.)			Production of Coke (Tons of 2,000 lbs.)			
		1st 6 Mos.	2nd 6 Mos.	Total Coal Produced for year.	Used in Oper- tion of Mine.	Furnished local trade and Tenants.	Used in Coke Ovens.	Quantity Shipped from Mine.	1st 6 Mos.	2nd 6 Mos.	Total for the year.
<i>McDowell County—Con.</i>											
Welch C. & C. Co.	Welch	2,804	5,624	8,428				8,428			
Hemphill	Hemphill	2,674	9,100	11,774				338			
Imo	Imo	1,875	10,384	12,259		134		12,125			
Oregon Coal Co.	McClaren	750	10,356	11,106	134	86		10,886			
Zenith C. & C. Co.	Zenith Nos. 1 & 2	4,000	24,000	28,000	700			27,300			
Helena Coal Co.	Helena	1,670	5,490	7,160	15	50		7,065			
Totals.		2,573,479	2,945,897	5,519,376	54,443	48,602	1,670,046	3,751,285	568,504	603,696	1,170,200
<i>Mercer County.</i>											
Mill Creek C. & C. Co.	Mill Creek	32,061	57,935	90,016	519	348	39,640	49,509	14,359	13,437	27,796
Coaldale	Coaldale	47,408	75,702	123,110	501	736	17,611	104,312	8,584	3,786	12,370
Buckeye C. & C. Co.	Buckeye	47,386	66,825	114,211	339	450	30,007	83,365	9,087	9,668	18,755
Caswell Creek C. & C. Co.	Caswell	61,443	68,948	130,391	350	1,650	40,218	88,173	12,185	14,627	26,812
Booth-Bowen C. & C. Co.	Booth-Bowen	66,967	81,760	148,726	300	1,132	31,700	115,604	9,637	10,854	20,491
Louisville C. & C. Co.	Nos. 1, 2 & 3	90,042	58,313	148,355		829	36,147	81,379	11,808	11,520	23,328
The Goodwill C. & C. Co.	Goodwill	34,540	44,377	78,917	300	200	20,545	57,872	6,000	7,530	14,130
Pinnacle C. & C. Co.	Pinnacle	39,567	43,123	82,690	674	826	18,668	62,512	6,000	6,465	12,465
Crane Creek C. & C. Co.	Crane Cr. Nos. 1 & 2	52,336	50,320	102,656	2,118	1,556	27,028	77,956	9,234	8,785	18,019
Sagamore C. & C. Co.	Sagamore	44,500	58,850	103,350	1,200	1,000	15,800	85,350	6,200	4,344	10,544
Crystal C. & C. Co.	Crystal	35,300	37,041	72,341	175	240	7,535	64,361	1,843	3,579	5,422
The Thomas C. Co.	Thomas	43,313	42,863	86,206	130	450		85,626			
Yukon Coal Co.	Yukon	8,321	6,250	14,571				14,571			
The Weyanoke C. & C. Co.	Weyanoke		2,500	2,500		40		2,460			
Totals.		573,174	700,896	1,274,070	6,906	9,457	284,927	973,090	95,537	94,595	190,132
<i>Mingo County.</i>											
Pearl Coal Mining Co.	Camp Branch	9,772	1,578	11,350				11,350			
" " " "	Pearl	9,511	5,762	15,308		155		15,148			
" " " "	Spring	10,337	11,607	22,144		446		21,698			
Red Jacket C. & C. Co.	Rutherford	49,195	51,339	100,535	298	536		99,731			
" " " "	Maritime	20,062	14,307	34,369	400			33,589			
" " " "	Red Jacket	90,599	94,683	185,532	1,378	2,678		181,516			
" " " "	Lick Fork	63,344	50,663	114,067		1,200		112,837			
Grapevine Coal Co.	Grapevine	47,589	35,730	83,319		1,700		82,619			
Thacker C. & C. Co.	Nos. 1, 2 & 3	109,298	107,553	216,851	2,000	1,000		213,851			
Lynn C. & C. Co.	Lynn	13,251	20,151	33,402				33,402			

Glen Alum C. Co.	Glen Alum Nos. 1 & 2.	55,108	74,509	120,617	1,001	128,618	1,001	128,618	.....
Nolan Coal Co.	Winnifrede	6,969	6,969	12,787	200	12,787	200	12,787	.....
War Eagle Coal Co.	War Eagle	11,658	15,500	27,153	1,000	25,153	1,000	25,153	.....
Hatfield Colliery Co.	Hatfield	7,200	8,050	15,250	500	14,510	240	14,510	.....
Jackson Coal Co.	Jackson	5,357	6,250	11,607	268	11,389	268	11,389	.....
Mate Creek Coal Co.	Mate Creek	7,756	10,061	17,847	.....	17,847	.....	17,847	.....
Marvin Coal Co.	Marvin	4,456	11,055	15,511	50	15,461	.....	15,461	.....
Papoose Coal Co.	Papoose	23,050	17,259	40,309	1,000	39,309	1,000	39,309	.....
Margaret Mining Co.	Margaret	1,397	10,835	12,232	400	12,232	400	12,232	.....
Star Coal Co.	Star	9,270	7,102	16,372	.....	15,972	.....	15,972	.....
Cedar Coal Co.	Cedar	6,965	6,455	13,440	.....	13,440	.....	13,440	.....
Merrimac C. & C. Co.	Merrimac	12,800	8,027	20,827	.....	20,827	.....	20,827	.....
Goodman C. & C. Co.	Nos. 1 & 2	178	1,775	20,535	.....	535	.....	535	.....
Howard Colliery Co.	Howard	.....	1,775	1,775	2	1,775	2	1,775	.....
Chattahoo Colliery Co.	Chattahoo	.....	178	178	53	53	53	53	.....
Rawl C. & C. Co.	Nos. 1 & 2	.....	711	711	80	711	80	711	.....
Totals.		574,307	578,706	1,153,013	5,845	1,135,889	11,279	1,135,889	.....
Barbour County.									
Davis Colliery Co.	Junior	37,159	27,495	64,654	334	64,320	1,084	65,404	19,128
Phillippi C. M. Co.	Nos. 1, 2, 3 & 4	43,100	24,080	67,180	1,752	65,432	3,836	69,268	.....
Tygart's River Coal Co.	Ardon	17,718	13,244	30,962	535	30,427	325	30,752	.....
Southern C. & Trans. Co.	Berryburg	157,622	138,230	295,852	6,461	292,391	2,219	294,610	.....
Laurel Creek C. Co.	Laurel Creek	9,129	11,633	20,762	200	20,562	200	20,562	.....
The Century C. Co.	Century No. 1	78,925	99,123	178,048	494	177,554	494	178,048	.....
Valley C. & C. Co.	Century No. 2	2,200	10,675	12,875	2,400	12,875	415	13,290	.....
Freeport Smokeless Coal & Coke Co.	Valley	6,542	5,820	12,362	356	11,961	415	12,376	.....
Candace C. & C. Co.	Lillian	1,330	1,179	2,509	4	2,490	75	2,565	.....
Maryland Smokeless C. Co.	Candace	2,500	.....	2,500	.....	2,500	.....	2,500	.....
Totals.	Dartmoor No. 1	2,593	.....	2,593	.....	2,593	.....	2,593	.....
Grant County.									
Davis C. & C. Co.	Shaft No. 22	358,818	332,079	690,897	11,842	679,055	5,162	684,217	19,128
Marion C. & C. Co.	Shaft No. 33	23,004	36,014	59,018	9,000	48,018	375	48,393	.....
Buffalo Cr. & Cumberland C. Co.	Marion	10,000	30,076	40,076	.....	40,076	.....	40,076	.....
Totals.	Buffalo No. 1	1,951	13,424	14,375	75	14,300	64	14,364	.....
Mineral County.									
Davis C. & C. Co.	No. 18	34,455	79,514	113,969	9,075	104,894	439	105,333	.....
" " " "	No. 8	23,383	12,874	35,257	.....	35,257	97	35,354	.....
" " " "	No. 20	20,939	17,547	38,486	194	38,292	194	38,486	.....
" " " "	No. 2	6,632	15,688	22,320	22	22,298	22	22,320	.....
" " " "	No. 6	38,127	50,946	89,073	311	88,762	311	89,073	.....
" " " "	No. 6	76,394	82,775	159,169	100	158,869	1,712	160,581	.....
Smith Coal Co.	Smith	6,244	13,563	19,807	200	19,607	200	19,807	.....

PRODUCTION OF COAL AND COKE BY COUNTIES FOR YEAR ENDING JUNE 30th, 1904.

NAME OF COMPANY.	NAME OF MINE.	Coal Production (Tons of 2,240 lbs)			Distribution of Coal (Tons of 2,240 lbs)			Production of Coke (Tons of 2,000 lbs.)			
		1st 6 Mos.	2nd 6 Mos.	Total Coal Produced for year.	Used in Oper-ation of Mine.	Furnished local trade and Tenants.	Used in Coke Ovens.	Quantity Shipped from Mine.	1st 6 Mos.	2nd 6 Mos.	Total for the year.
<i>McDowell County—Con.</i>											
Welch C. & C. Co.	Welch	2,804	5,624	8,428				8,428			
Hemphill	Hemphill	2,674	9,100	11,774		11,438		338			
Imo	Imo	1,875	10,384	12,259		134		12,125			
Oregon Coal Co.	McClaren	750	10,356	11,106	134	86		10,886			
Zenith C. & C. Co.	Zenith Nos. 1 & 2.	4,000	24,000	28,000	700			27,800			
Helena Coal Co.	Helena	1,670	5,460	7,130	15	50		7,065			
Totals.		2,578,479	2,945,897	5,524,376	54,443	48,602	1,670,046	3,751,285	568,504	603,698	1,170,200
<i>Mercer County.</i>											
Mill Creek C. & C. Co.	Mill Creek	22,081	57,935	90,016	519	348	39,640	49,509	14,359	13,437	27,796
Condale	Condale	47,408	75,752	123,160	601	736	17,611	104,312	8,534	3,786	12,320
Buckeye C. & C. Co.	Buckeye	47,336	68,825	116,161	339	450	30,007	83,365	9,087	9,698	18,785
Caswell Creek C. & C. Co.	Caswell	61,443	93,948	155,391	350	1,050	40,218	88,173	12,185	14,627	26,812
Booth-Bowen C. & C. Co.	Booth-Bowen	66,987	81,769	148,756	300	1,132	31,700	115,604	19,637	10,854	30,491
Louisville C. & C. Co.	Nos. 1, 2 & 3.	60,042	58,313	118,355		829	36,147	81,379	11,908	11,520	23,428
The Goodwill C. & C. Co.	Goodwill	34,557	44,377	78,934	300	200	20,545	57,872	6,000	7,530	13,530
Pinna C. & C. Co.	Pinna	30,587	43,123	73,710	674	826	18,968	62,512	6,000	6,465	12,465
Grane Creek C. & C. Co.	Grane Cr. Nos. 1 & 2.	52,336	56,820	109,156	2,118	1,556	27,028	77,956	9,234	8,785	18,019
Sagamore C. & C. Co.	Sagamore.	44,500	58,850	103,350	1,200	1,000	15,800	85,350	6,200	4,344	10,544
Crystal C. & C. Co.	Crystal	35,300	37,041	72,341	1,175	240	7,535	64,391	1,843	3,579	5,422
The Thomas C. Co.	Thomas	43,313	42,883	86,206	130	450		85,626			
Yukon Coal Co.	Yukon	8,321	6,250	14,571		40		14,571			
The Weyanoke C. & C. Co.	Weyanoke.		2,500	2,500				2,460			
Totals.		573,174	700,886	1,274,070	6,006	9,457	284,927	973,080	95,537	94,595	190,132
<i>Mingo County.</i>											
Pearl Coal Mining Co.	Camp Branch	9,772	1,578	11,350				11,350			
" " " "	Pearl	9,511	5,702	15,213		155		15,148			
" " " "	Spring	10,537	11,402	21,939		446		21,698			
Red Jacket C. & C. Co.	Rutherford	49,198	51,320	100,518	298	536	49,731	99,731			
" " " "	Maritime	30,082	14,307	44,389	400			33,589			
" " " "	Red Jacket.	30,590	94,933	125,523		2,678		121,516			
" " " "	Lick Fork	47,539	50,493	98,032		1,200		96,832			
Grapevine Coal Co.	Grapevine	106,235	32,730	138,965		1,700		137,265			
Thacker C. & C. Co.	Nos. 1, 2 & 3.	13,251	107,555	120,806	2,000	1,000		118,806			
Lynn C. & C. Co.	Lynn.		20,151	20,151				20,151			

Glen Alum C. Co.		55,108	74,509	129,617	1,001	128,616	.....	.....
Nolan Coal Co.	Winnifrede	6,989	6,989	12,787	200	12,787	.....	.....
War Eagle Coal Co.	War Eagle	11,653	15,500	27,153	1,000	25,153	.....	.....
Hatfield Colliery Co.	Hatfield	7,200	8,050	15,250	1,600	14,650	.....	.....
Jackson Coal Co.	Jackson	5,357	6,250	11,607	268	11,339	.....	.....
Mate Creek Coal Co.	Mate Creek	7,756	10,061	17,817	.....	17,817	.....	.....
Marvin Coal Co.	Marvin	4,456	10,061	15,517	50	15,467	.....	.....
Papoose Coal Co.	Papoose	23,560	17,259	40,819	1,000	39,819	.....	.....
Margaret Mining Co.	Margaret	1,307	10,835	12,232	400	12,232	.....	.....
Star Coal Co.	Star	9,270	7,102	16,372	.....	15,972	.....	.....
Cedar Coal Co.	Cedar	6,985	6,455	13,440	.....	13,440	.....	.....
Merimac C. & C. Co.	Merimac	12,900	8,027	20,927	.....	20,927	.....	.....
Goodman C. & C. Co.	Goodman	178	1,775	20,535	.....	535	.....	.....
Howard Colliery Co.	Howard	.....	1,775	1,775	2	1,775	.....	.....
Chattahoochee Colliery Co.	Chattahoochee	.....	1,178	1,178	53	1,178	.....	.....
Rawl C. & C. Co.	Nos. 1 & 2	.....	711	711	.....	539	.....	.....
Totals.		574,307	578,708	1,153,013	5,845	1,135,889	.....	.....
Barbour County.								
Davis Colliery Co.	Junior	37,159	27,495	64,654	1,084	30,412	.....	19,128
Phillippi Coal Co.	Nos. 1, 2, 3 & 4	43,100	24,080	67,780	1,752	65,678	.....	.....
Tygart's Ferry Coal Co.	Ardmore	17,718	13,244	30,962	325	30,102	.....	.....
Southern C. & Taus. Co.	Berryburg	157,622	138,230	295,852	2,219	287,172	.....	.....
Laurel Creek C. Co.	Laurel Creek	9,123	11,633	20,762	20	20,562	.....	.....
The Century C. Co.	Century No. 1	78,623	99,123	178,048	494	175,154	.....	.....
Valley C. & C. Co.	Century No. 2	2,500	10,675	12,875	2,400	12,875	.....	.....
Freepport Smokeless Coal & Coke Co.	Valley	6,942	5,820	12,362	356	11,961	.....	.....
Candace C. & C. Co.	Lillian	1,330	1,179	2,509	75	2,430	.....	.....
Maryland Smokeless C. Co.	Candace	2,500	.....	2,500	.....	2,500	.....	.....
Totals.	Darmon No. 1	358,818	332,079	690,897	11,842	23,824	.....	19,128
Grant County.								
Davis C. & C. Co.	Shaft No. 22	22,004	38,014	58,018	375	48,643	.....	.....
Marion C. & C. Co.	Shaft No. 33	10,000	30,076	40,076	.....	40,076	.....	.....
Buffalo Cr & Cumberland C. Co.	Marion	1,500	.....	1,500	64	1,500	.....	.....
Totals.	Buffalo No. 1	34,455	13,424	14,375	75	14,238	.....	.....
Mineral County.								
Davis C. & C. Co.	No. 18	22,393	12,874	35,237	439	104,455	.....	.....
.....	No. 8	30,939	17,547	38,486	97	38,140	.....	.....
.....	No. 20	6,682	15,938	22,350	194	38,292	.....	.....
.....	No. 9	38,127	50,946	89,073	22	89,762	.....	.....
.....	No. 6	76,394	82,775	159,169	311	157,357	.....	.....
Smith Coal Co.	Smith	6,244	13,563	19,807	1,712	19,807	.....	.....

PRODUCTION OF COAL AND COKE BY COUNTIES FOR YEAR ENDING JUNE 30th 1904.

NAME OF COMPANY.	NAME OF MINE.	Coal Production (Tons of 2,240 lbs.)			Distribution of Coal (Tons of 2,240 lbs.)			Production of Coke (Tons of 2,000 lbs.)			
		1st 6 Mos.	2nd 6 Mos.	Total coal produced for year.	Used in operation of mine..	Furnished local trade and tenants.	Used in coke ovens.	Quantity shipped from mine.	1st 6 Mos.	2nd 6 Mos.	Total for the year.
<i>Mineral County.—Continued.</i>											
Piedmont & Potomac C. Co.	Virginia.	18,000	17,500	35,500		150		35,350			
Big Vein Coal Co.	Big Vein	10,449	9,800	20,249	57	111		20,081			
Taylor Coal Co.	Taylor	1,514	3,161	3,675				3,675			
Masteller Coal Co.	Hampshire	15,629	17,504	33,223	245			32,978			
Abraham's Creek C. & C. Co.	Oakdale.	2,000	3,000	5,000				5,000			
Wabash & Potomac C. Co.	Blaine	3,281	2,563	5,844		150		5,694			
Totals		221,002	246,011	467,013	602	2,747		464,264			
<i>Preston County.</i>											
Austen C. & C. Co.	Austen No. 1.	22,455	8,104	22,455	770	354	20,061	1,970	13,520		13,520
Hamilton C. & C. Co.	Austen No. 2.	10,471	13,500	18,575	504	525	13,321	4,225	5,261	3,192	8,453
Gorman C. & C. Co.	Newburg Shaft.	15,500	2,323	29,000	1,200	150		27,650			
Gorman C. & C. Co.	Gorman No. 1.	1,293	2,323	3,526				3,526			
Irona Coal Co.	Gorman No. 2.	8,724	22,826	31,550	1,500	390	814	28,846	320	218	538
Merchants Coal Co.	Irona Nos. 1 & 2.	50,426	32,300	83,186	1,955	2,518		78,713			
	No. 1.	20,067	29,074	56,771		1,816		53,737			
	Nos. 2 & 3.	108,187	115,018	223,205	4,004		4,000	218,541	2,600		2,600
Oakland C. & C. Co.	Corinth.	16,023	24,667	46,374	2,080	350		39,844			
Kingwood Coal Co.	Howesville.	21,907	13,426	30,349	600	50		29,669			
Eller C. & C. Co.	Dixie.	9,821	1,796	11,607	35	85		11,487			
Orr C. & C. Co.	Vulcan.	22,300	12,000	34,300	550	165	3,725	29,830	2,200	300	2,500
Manufacturers C. & C. Co.	Victoria No. 1.	15,740	9,829	25,569	2,246	153		23,170			
	Victoria No. 2.		3,100	3,100	640			2,460			
Pennsylvania Cons. C. Co.	Shrader No. 1.	10,000	11,584	21,584	1,228	420		19,938			
Atlantic C. & C. Co.	Atlantic Nos. 1 & 2.	31,194	6,004	37,708	1,014	52		36,732			
West Virginia C. Co.	Masonstown	5,645	5,645	11,290		1,158		10,132			
Totals.		377,293	311,846	689,139	19,204	8,216	41,921	619,798	23,901	3,710	27,611
<i>Randolph County.</i>											
Davis Colliery Co.	Coalton	40,820	65,661	106,981	2,476	1,753	13,418	88,234		10,490	10,490
	Grassy Run.	7,700		7,700	6	16		7,708			
	Harding	53,006	41,437	94,743	710	446	43,313	50,298	20,177	13,929	34,106
	Weaver No. 1.	38,006	44,555	82,861	1,929	678	22,678	57,876	12,542	4,656	16,968
	Maryland Smokeless C. Co.	32,004	9,682	42,646	97		20,735	21,814	12,950	2,533	15,483
	Letter No. 1.	5,846	2,870	7,855				7,855			
	Letter No. 3.	8,311	2,870	11,181	446	298		10,431			
Totals.		6,311	2,870	11,181	446	298		10,431			

Ritter Coal Co.	Klondyke.	3,232	242	3,474	100	450	100 144	247,306	45,489	31,608	77,077
Totals		190,075	106,456	356,531	5,470	3,611	100 144	247,306	45,489	31,608	77,077
<i>Taylor County.</i>											
Grafton C. & C. Co.	Sandlick	10,600	8,500	19,100		125		18,975			
Flemington		22,621	15,586	38,207	1,805	365		38,037			
Davis C. & C. Co.	No. 41.	29,422	25,371	54,793				54,793			
L. B. Brydon	Foster.	5,073	5,864	10,937				10,737			
Rosemont Coal Co.	Rosemont.	29,882	38,083	65,965		412		65,533			
Davis-Brydon C. Co.	T. B. Davis.	19,313	26,407	45,720		245		45,475			
Totals		116,891	117,611	234,502	1,805	1,147		231,550			
<i>Tucker County.</i>											
Davis C. & C. Co.	No. 23.	159,103	140,354	299,457	10,452	39,215	47,969	201,821	17,270	14,712	31,982
"	Shaft No. 34.	67,627	60,996	128,613			17,134	111,479	3,508	7,915	11,423
"	No. 25.	58,581	45,759	104,340	2,025			102,315			
"	No. 35.	28,665	20,451	49,116	3,776			24,758	8,156	5,565	13,721
"	No. 38.	59,155	56,708	115,863	741			44,747	22,245	24,672	46,917
"	No. 37.	76,243	85,528	161,771		1,446		46,502	36,632	39,250	75,882
Cumberland Coal Co.	Douglas No. 1.	28,209	25,949	53,858	500			53,358			
"	Douglas No. 3.	36,298	37,758	74,056	500	1,000	62,815	9,741	21,723	20,153	41,876
"	Douglas No. 4.	15,210	18,450	33,660				33,660			
Beacon Coal & Coke Co.	Beacon.		17,024	17,024				17,024			
Totals		529,091	508,967	1,037,758	17,994	41,661	332,698	645,405	109,534	112,267	221,901

PRODUCTION OF COAL IN WEST VIRGINIA, BY GEOGRAPHICAL DISTRICTS, FOR THE YEAR ENDING JUNE 30th, 1904.

(Tons of 2,240 lbs.)

Potomac district	1,619,340
Monongahela district	7,396,161
Wheeling district	553,984
Kanawha-New River district	9,293,771
Norfolk & Western district	7,951,459
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Total, commercial mines.....	26,814,715
Small mines	170,000
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Grand total	26,984,715

POTOMAC DISTRICT.

(Counties of Grant, Mineral and Tucker.)

Davis Coal & Coke Co., 5 mines in Mineral; 6 in Tucker and 2 in Grant	1,301,569
Cumberland Coal Company	161,574
Piedmont & Potomac Coal Co.....	35,500
Masteller Coal Co.	33,223
Big Vein Coal Company.....	20,249
Smith Coal Company	19,807
Beacon Coal & Coke Co.....	17,024
Buffalo Creek Cumberland Coal Co.....	14,375
Wabash & Potomac Coal Co.....	5,844
Abrams Creek Coal & Coke Co.....	5,000
Taylor Coal Co.....	3,675
Marion Coal & Coke Co.....	1,500
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Total	1,619,340

MONONGAHELA DISTRICT.

(Counties of Barbour, Harrison, Marion, Monongalia, Preston, Randolph and Taylor.)

*Fairmont Coal Co., 15 mines in Harrison; 17 mines in Marion and 1 mine in Monongalia	3,601,481
Clarksburg Fuel Co.....	473,239
Pittsburg & Fairmont Fuel Co.....	315,725
Southern Coal & Transportation Co.....	295,852
Merchants Coal Co.....	278,976
Davis Colliery Co., 1 mine in Barbour; 3 in Randolph.....	273,168
The Century Coal Co.....	190,923
Maryland Smokeless Coal Co., 4 mines in Randolph and 1 mine in Barbour	147,136
Virginia & Pittsburg Coal & Coke Co.....	146,003
Georges Creek Coal & Iron Co.....	122,758
Madeira-Hill-Clark Coal Co.	99,903
Cook Coal & Coke Co.....	92,866
Irona Coal & Coke Co.....	83,186
Fairmont & Baltimore Coal & Coke Co.....	67,872
Philippi Coal Mining Co.....	67,780
Meadow Brook Coal & Coke Co.....	65,992
Rosemont Coal Co.	65,945
Davis Coal & Coke Co.	54,793
Hutchinson Fuel Co.	54,209
Federal Coal & Coke Co.....	49,107
West Virginia Coal Co., 1 in Preston and 1 in Monongalia.....	48,502
Oakland Coal & Coke Co.....	46,274
Davis-Brydon Coal Co.....	45,720

MONONGAHELA DISTRICT—Continued.

New Central Coal Co.....	42,898
Austen Coal & Coke Co.....	41,080
O'Gara Coal Mining Co.....	39,558
Flemington Coal & Coke Co.....	38,207
Atlantic Coal & Coke Co.....	37,798
Opekiska Coal & Coke Co.....	35,739
Gorman Coal & Coke Co.....	35,076
Orr Coal & Coke Co.....	34,800
Deckers Creek Coal & Coke Co.....	33,928
Tygart River Coal Co.....	30,962
Kingwood Coal Co.....	30,849
Lukens Coal Co.....	29,461
Hamilton Coal & Coke Co.....	29,000
Manufacturers Coal & Coke Co.....	28,669
Cook & Hart Coal Co.....	25,000
Pennsylvania Consolidated Coal Co.....	21,584
Laurel Creek Coal Co.....	20,762
Grafton Coal & Coke Co.....	19,100
Pitcairn Coal Co.....	18,170
Killarm Coal Co.....	17,805
Rosebud Coal Co.....	17,531
Valley Coal & Coke Co.....	12,362
Chieftain Coal Co.....	12,171
Hite Coal & Coke Co.....	11,607
L. B. Brydon.....	10,737
Powell Coal & Coke Co.....	9,000
The Phoenix Coal-Mining Co.....	8,952
Harold Coal & Coke Co.....	4,000
Short Line Coal Co.....	3,571
Ritter Coal Co.....	3,474
Freeport Smokeless Coal & Coking Co.....	2,509
Candance Coal & Coke Co.....	2,500
J. W. Overholt Coal Co.....	877
Total.....	7,396,161

WHEELING DISTRICT.

(Counties of Brooke, Hancock, Marshall and Ohio.)

Hitchman Coal & Coke Co.....	151,184
Wheeling Steel & Iron Co.....	62,068
Marquet Coal Co.....	54,072
Glendale Coal Co.....	49,028
Boggs Run Mining & Man'fg. Co.....	42,644
Mound Coal Co.....	40,349
The Elm Grove Coal Co.....	36,119
Richland Coal Co.....	24,537
W. H. Kasley.....	15,255
Wheeling Steam Coal Co.....	13,955
John J. Walsh.....	12,143
M. M. Cullen.....	8,928
Lewis-Findley Coal Co.....	8,036
Beech Bottom Coal Co.....	7,143
Congo Coal Co.....	6,700
Reymann Brewing Co.....	5,894
Jochum & Co.....	5,857
LaBelle Iron Works.....	4,082
Wells Coal Co.....	3,000
Panhandle Coal Co.....	400
Total.....	553,984

KANAWHA-NEW RIVER DISTRICT.

(Counties of Fayette, Kanawha, Clay, Lincoln, Mason, Nicholas, Putnam and Raleigh.)

Kanawha & Hocking C. & C. Co., 9 mines in Kanawha; 5 mines in Fayette	854,299
The New River Smokeless Coal Co., 6 mines in Fayette and 3 mines in Raleigh	513,284
McKell Coal & Coke Co., 2 mines in Fayette and 1 mine in Raleigh	285,467
Collins Colliery Co.	267,593
Gauley Mountain Coal Co.	266,654
The Marmet Co.	223,677
W. P. Rend	213,707
White Oak Fuel Co.	206,200
Boomer Coal & Coke Co.	202,265
Stevens Coal Co.	193,750
Winifrede Coal Co.	186,094
Gordon Coal & Coke Co.	163,751
Harvey Coal & Coke Co.	150,000
Carbon Coal Co.	146,846
Macdonald Colliery Co.	140,992
Raleigh Coal & Coke Co.	137,748
Dunn Loop Coal & Coke Co.	130,967
Kanawha & Coal River Coal Co.	126,831
Low Moor Iron Co.	125,127
Ephraim Creek Coal & Coke Co.	120,057
The Mt. Carbon Company, Ltd.	119,430
Kanawha Gas Coal Co.	117,857
Campbells Creek Coal Co.	117,664
Sugar Creek Coal & Coke Co.	117,179
Otto-Marmet Coal & Coke Co.	117,092
Carver Brothers Co.	116,735
Prudence Coal Co.	113,644
Cardiff Coal Co., 3 mines in Kanawha and 3 mines in Fayette	105,628
Plymouth Coal & Mining Co.	101,679
Cannelton Coal Co.	101,534
Star Coal & Coke Co.	97,834
Chesapeake Mining Co.	97,424
Victoria Coal & Coke Co.	96,000
West Virginia Colliery Co.	93,556
Cabin Creek Mining Co.	86,973
Greenwood Coal Co.	85,738
W. R. Johnson & Co.	84,821
Mecca Coal & Coke Co.	77,792
Whipple Colliery Co.	77,530
Black Betsey Coal & Mining Co.	76,786
Wright Coal & Coke Co.	72,216
Great Kanawha Colliery Co., Ltd.	69,670
Piney Colliery	63,158
Turkey Knob Coal Co.	62,643
Columbus Iron & Steel Co.	61,262
Paint Creek Coal Co.	61,192
Blume Coal & Coke Co.	59,918
W. R. Johnson	59,096
Beechwood Coal & Coke Co.	58,795
The Thurmond Coal Co.	56,453
Scranton Splint Coal Co.	55,875
Robinson Coal Co.	55,753
Raccoon Fork Coal Co.	55,737
Brown's Coal Co.	54,383
Ballinger Coal & Coke Co.	51,469

KANAWHA-NEW RIVER DISTRICT—Continued.

Quinnimont Coal Co.	51,424
Cherokee Coal Co.	49,586
Elk Coal Co.	48,055
Beury Coal & Coke Co.	46,289
Nuttallburg Coal & Coke Co.	45,962
Dry Branch Coal Co.	45,130
Chapman Iron, Coal & Coke Co.	43,771
Smokeless Coal Co.	41,205
Imperial Colliery Co.	38,943
Wake Forest Mining Co.	38,732
Alaska Coal & Coke Co.	38,422
Fire Creek Coal & Coke Co.	36,306
Montgomery Coal Co.	35,549
Belmont Coal Co.	35,321
Standard Splint & Gas Coal Co.	34,975
Newcastle Coal Co.	31,491
The Fayette Coal & Coke Co.	31,230
Stonewall Coal & Coke Co.	30,962
Echo Coal & Coke Co.	29,689
Equitable Coal Co.	28,708
Quarrier Coal Co.	28,262
Laurel Creek Coal Co.	28,000
Consumers Coal & Mining Co.	27,904
Glendale Colliery Co.	27,571
Gamoca Coal Co.	27,225
Coalburg Colliery Co.	27,121
Rothwell Coal Co.	26,824
Economy Fuel Co.	26,750
United Colliery Co.	26,652
Longdale Iron Co.	25,359
Big Bend Coal Co.	25,000
Leewood Colliery Co.	24,559
Thistle Coal Co.	24,071
Boone Coal & Coke Co.	23,590
Lincoln Coal Co.	23,093
Hemlock Hollow Coal & Coke Co.	22,523
Michigan Coal Co.	22,300
Keystone Coal Co.	22,298
Morris Creek Coal Co.	21,000
Manufacturers & Consumers Coal Co.	20,000
Greenbrier Coal Co.	19,832
Quincy Coal Co.	19,554
Red Warrior Coal Co.	18,900
Holly Coal Co.	18,580
Belleclare Coal Co.	18,026
Laura Mining Co.	17,879
The Isabel Coal & Coke Co.	17,663
Liverpool Salt & Coal Co.	17,142
Republic Coal Co.	16,732
Bell Creek Coal Co.	16,499
Beech Grove Coal Co.	16,428
Kelly's Creek Colliery Co.	16,158
Morton Coal Co.	13,983
Deltz Colliery Co.	13,914
New Diamond Coal Co.	13,218
Robins Coal Co.	13,100
Mill Creek Cannel Coal Co.	11,895
Lynchburg Colliery Co.	11,290
Grose Colliery Co.	11,260
Shenandoah Coal & Coke Co.	11,250

KANAWHA-NEW RIVER DISTRICT—Continued.

Pine Grove Coal Co.	9,648
Mabscott Coal Co.	9,500
Hartford City Salt Co.	9,459
Black Hawk Coal Co.	8,759
Rochester Coal Co.	8,651
M. T. Davis Coal Co.	8,649
Pawnee Coal Co.	7,951
Klondike Coal Co.	7,482
Peerless Gas Coal Co.	7,285
Falling Rock Cannel Coal Co.	6,891
Shamrock Coal Co.	5,938
Pen Mar Mining Co.	5,860
Wacomah Coal Co.	5,665
Detroit & Kanawha Coal Co.	4,911
Cambria Mining Co.	4,506
Thos. D. Harris	3,786
Jefferson Coal & Coke Co.	3,777
Mt. Carmel Coal Co.	3,733
Mason City Mining Co.	3,572
New River Colliery Co.	3,500
Camden Clay Co.	3,236
Nuckolls' Coal & Coke Co.	3,061
Dorfee Coal Mining Co.	2,860
West Virginia Peerless Coal Co.	2,679
La Mont Mining Co.	2,515
J. G. Vaughan	2,186
Caledonian Coal & Coke Co.	1,562
Hughes Creek Coal Co.	1,206
The Willis Coal & Coke Co.	800
National Coal & Coke Co.	717
Lucas-Ray Coal Co.	536
The Oak Forest Coal & Mining Co.	357
Mt. Hope Coal & Coke Co.	300
Raven Coal & Coke Co.	268
Total	9,293,771

NORFOLK & WESTERN DISTRICT.

(Counties of McDowell, Mercer and Mingo.)

Red Jacket Coal & Coke Co.	517,812
Norfolk Coal & Coke Co.	466,018
United States Coal & Coke Co.	366,615
Houston Coal & Coke Co.	304,940
Empire Coal & Coke Co.	282,641
Ashland Coal & Coke Co.	257,894
Turkey Gap Coal & Coke Co.	237,143
Pulaski Iron Co.	237,100
Thacker Coal & Coke Co.	216,851
Mill Creek Coal & Coke Co.	213,176
Elkhorn Coal & Coke Co.	212,077
Crozer Coal & Coke Co.	207,254
American Coal Co. (Crane Creek & Pinnacle)	191,366
McDowell Coal & Coke Co.	182,993
Greenbrier Coal & Coke Co.	159,225
Shamokin Coal & Coke Co.	157,486
Booth-Bowen Coal & Coke Co.	148,736
Upland Coal & Coke Co.	148,136
Bottom Creek Coal & Coke Co.	145,968
Algoma Coal & Coke Co.	143,239
Gilliam Coal & Coke Co.	139,645

NORFOLK & WESTERN DISTRICT—Continued.

Peerless Coal & Coke Co.....	135,513
Eureka Coal & Coke Co.....	131,450
Caswell Creek Coal & Coke Co.....	130,391
Glen Alum Coal Co.....	129,617
Keystone Coal & Coke Co.....	128,895
The Tidewater Coal & Coke Co.....	127,090
Lynchburg Coal & Coke Co.....	125,305
Shawnee Coal & Coke Co.....	124,943
Louisville Coal & Coke Co.....	118,355
Buckeye Coal & Coke Co.....	114,161
Arlington Coal & Coke Co.....	113,651
Powhatan Coal & Coke Co.....	105,431
Sagamore Coal & Coke Co.....	103,350
Elk Ridge Coal & Coke Co.....	97,930
Roanoke Coal & Coke Co.....	94,372
Indian Ridge Coal & Coke Co.....	87,988
Thomas Coal Co.....	86,206
Goodwill Coal & Coke Co.....	78,917
Crystal Coal & Coke Co.....	72,341
Rolfe Coal & Coke Co.....	62,682
Tug River Coal & Coke Co.....	54,349
Big Sandy Coal & Coke Co.....	51,942
Pearl Coal Mining Co.....	48,797
Cherokee Colliery Co.....	43,745
Pappoose Coal Co.....	40,309
Black Stone Mining Co.....	35,803
Lynn Coal & Coke Co.....	33,402
Twin Branch Mining Co.....	32,706
Mohawk Coal & Coke Co.....	31,911
Pocahontas Collieries Co., partially in this State.....	30,000
Zenith Coal & Coke Co.....	28,000
War Eagle Coal Co.....	27,153
Vaughan Coal & Coke Co.....	26,786
Big Four Coal & Coke Co.....	26,700
Flournoy Colliery Co.....	24,282
Hensley Coal Co.....	23,634
Oregon Coal Co.....	23,365
Merrimac Coal & Coke Co.....	20,827
Welch Coal & Coke Co.....	20,202
Antler Coal & Coke Co.....	19,000
Mate Creek Coal Co.....	17,847
Davy-Crocket Coal & Coke Co.....	17,058
Cletus Coal & Coke Co.....	16,401
Star Coal Co.....	16,372
Marvin Coal Co.....	15,511
Hatfield Colliery Co.....	15,250
Short Creek Coal & Coke Co.....	15,074
Yukon Coal Co.....	14,571
Cedar Coal Co.....	13,440
Nolan Coal Co.....	12,787
Maher Coal & Coke Co.....	12,664
Margaret Mining Co.....	12,232
Jackson Coal Co.....	11,607
Helena Coal Co.....	7,130
Weyanoke Coal & Coke Co.....	2,500
Howard Colliery Co.....	1,775
Rawl Coal & Coke Co.....	711
Goodman Coal & Coke Co.....	535
Chattaroy Colliery Co.....	178

Total 7,951,459

**COMPARATIVE STATEMENT OF THE PICK AND MACHINE
MINED COAL, BY COUNTIES, FOR 1904.**

DISTRICT.	COUNTY.	Pick mined coal (Tons of 2,240 lbs.)	Machine mined coal (Tons of 2,240 lbs.)	Total (Tons of 2,240 lbs.)
First	Brooke	32,222	5,582	37,804
First	Hancock	40,561	29,139	69,700
First	Harrison	634,779	1,810,423	2,445,202
First	Marion	1,363,242	1,422,108	2,785,350
First	Monongalia	104,697	89,843	194,540
First	Marshall	63,697	281,576	345,273
First	Ohio	101,207		101,207
Second	Clay	2,641	219	2,860
Second	Kanawha	1,530,836	1,261,242	2,792,078
Second	Lincoln	31,744		31,744
Second	Mason	89,009		89,009
Second	Putnam	290,557	5,357	295,914
Third	Fayette	4,119,335	1,530,882	5,650,217
Third	Nicholas	15,285	10,438	25,723
Third	Raleigh	406,226		406,226
Fourth	McDowell	5,303,007	221,369	5,524,376
Fourth	Mercer	1,219,739	54,331	1,274,070
Fourth	Mingo	684,227	488,786	1,173,013
Fifth	Barbour	251,379	439,518	690,897
Fifth	Grant	15,875	98,094	113,969
Fifth	Mineral	467,613		467,613
Fifth	Preston	222,444	396,685	619,139
Fifth	Randolph	345,350	11,181	356,531
Fifth	Taylor	212,683	21,519	234,202
Fifth	Tucker	896,358	139,400	1,035,758
	Totals	18,497,023	8,317,692	26,814,715
	Small Mines	170,000		170,000
	Grand Totals	18,667,023	8,317,692	26,984,71

**SUMMARY OF THE PRODUCTION OF MACHINE MINED COAL
IN THE STATE FOR THE YEAR ENDING JUNE 30th, 1904.**

DISTRICT.	COUNTY.	No. of mines using mach- ines.	No. of machines.	Tons of coal produced by machines (Tons of 2,240 lbs.)	No. of machine miners.	No. of machine runners and helpers.	Total No. of machine men employed.
First	Brooke	2	13	5,582	32	16	48
First	Hancock	1	1	29,139	69	8	68
First	Harrison	37	163	1,810,423	1,026	250	1,276
First	Marion	15	101	1,422,108	777	172	949
First	Monongalia	3	10	89,843	48	15	63
First	Marshall	4	20	281,576	288	46	334
Second	Clay	1	3	219	30	6	36
Second	Kanawha	67	198	1,261,242	1,540	334	1,874
Second	Putnam	1	1	5,357	12	2	14
Third	Fayette	55	222	1,530,882	1,346	291	1,637
Third	Nicholas	3	5	10,438	28	8	34
Fourth	McDowell	18	49	221,369	261	66	327
Fourth	Mercer	4	15	54,331	56	24	80
Fourth	Mingo	13	50	488,786	357	120	477
Fifth	Barbour	5	42	439,518	289	59	307
Fifth	Grant	2	6	98,094	103	22	125
Fifth	Mineral		4				
Fifth	Preston	12	61	396,685	467	108	575
Fifth	Randolph	1	2	11,181	10	4	14
Fifth	Taylor	1	7	21,519	25	3	28
Fifth	Tucker	3	15	139,400	109	20	129
	Totals	248	988	8,317,692	6,821	1,574	8,395

COMPANIES OPERATING MINE MACHINES AND THE QUANTITY OF COAL PRODUCED BY THEM
FOR THE YEAR ENDING JUNE 30th, 1904.

NAME OF COMPANY.	NAME OF MINE.	No. of mine machines.	Tons of coal produced by machines (tons of 2,240 lbs.)	No. of machine runners and helpers.	Total No. men employed by machine mining.
<i>Harrison County—Continued.</i>					
Meadow Brook C. & C. Co.	Erie.	8	85,992	35	47
Madsen Hill-Clark C. Co.	Waldo.	9	91,908	75	83
Rosebud C. Co.	Rosebud.	*1	44,209	30	30
The Phoenix Fuel Co.	Byron Nos. 1 & 2.	2	8,522	10	14
O'Garra C. Co.	Phoenix.	2	89,563	40	48
Lukens C. Co.	O'Garra.	5	15,151	10	14
Chieftain C. Co.	Lukens.	3	11,573	15	19
	Chieftain Nos. 1 & 2.	3		4	
Totals.		163	1,810,423	1,028	1,276
<i>Marion County.</i>					
Fairmont Coal Co.	Murray.	8	86,509	50	60
"	Montana.	5	72,704	35	31
"	W. Fair Shaft.	5	92,318	30	38
"	New England.	2	150,866	70	98
"	Gaston.	2	11,875	30	34
"	Monongah Nos. 2 & 5.	7	181,317	100	112
"	" No. 3.	5	143,216	100	116
"	" No. 6.	5	169,066	85	103
"	Anderson.	8	106,049	30	41
"	Highland.	4	80		
"	Middleton.	4	61,280	25	29
"	Chileton.	4	84,570	40	58
George's Creek C. & I. Co.	Chatham No. 1.	19	118,758	100	128
Federal C. & C. Co.	Federal No. 1.	11	49,107	40	62
New Central C. Co.	Staford.	9	42,863	32	40
Totals.		101	1,422,108	777	949
<i>Monongalia County.</i>					
Fairmont Coal Co.	Beechwood.	8	59,087	18	24
West Virginia Coal Co.	Richard.	3	13,822	10	15
Decker's Creek C. & C. Co.	Decker's Creek.	4	16,964	20	24
Totals.		10	89,843	48	63

* Being installed.

Marshall County.

Hitchman C. & C. Co.	7	151,184	140	14	154
Wheeling Steel & Iron Co.	2	46,909	38	6	44
Glendale Coal Co.	4	49,028	70	10	86
Mound Coal Co.	7	84,456	40	10	50
Totals,	20	281,576	288	46	324

Clay County.

Dorfee C. M. Co.	3	219	30	6	36
Totals,	3	219	30	6	36

*Totals,**Kanawha County.*

The Elk Coal Co.	4	28,908	25	6	31
Black Hawk C. Co.	1	1,428	10	2	12
Campbells Creek C. Co.	10	86,242	70	14	84
Quincy Coal Co.	3	7,946	38	8	46
Kanawha & Hocking C. & C. Co.	4	13,148	22	6	28
"	2	6,457	10	2	12
"	6	96,028	60	10	70
"	4	74,406	50	8	56
"	2	13,048	20	6	28
"	2	13,432	38	5	43
"	2	16,785	23	4	27
Kellys Creek Coll. Co.	4	13,809	45	12	57
Cannelton Coal Co.	3	48,310	48	8	56
The Marnet Co.	7	38,067	40	12	82
Winifrede Coal Co.	12	74,676	100	20	120
Coalburg Colliery Cp	4	14,927	44	16	60
Stevens Coal Co.	1	61,849	5	2	7
Dry Branch C. Co.	4	1,455	25	6	31
Belleclare Coal Co.	2	22,821	15	4	4
Cardiff Coal Co.	2	11,213	35	4	19
"	3	33,917	15	10	45
Holly C. Co.	5	11,066	25	2	17
Cherokee Coal Co.	3	25,069	20	6	31
Lee-wood Colliery Co.	3	1,406	15	4	24
M. T. Davis C. Co.	2	5,732	15	4	19
La Mont M. Co.	3	446	10	2	12
Carbon Coal Co.	1	4,527	25	8	33
Republic Coal Co.	3	8,649	20	6	26
"	2	2,515	15	4	19
"	6	78,820	70	8	78
"	2	7,143	20	4	24

*Just being installed.

**COMPANIES OPERATING MINE MACHINES AND THE QUANTITY OF COAL PRODUCED BY THEM FOR
THE YEAR ENDING JUNE 30th, 1904.**

NAME OF COMPANY.	NAME OF MINE.	No. of mine ma- chines.	Tons of coal pro- duced by machines (tons of 2,240 lbs.)	No. of machine runners and helpers.	Total No. men em- ployed by machine mining.
Kanawha County—Continued.					
West Virginia Colliery Co.	No. 1.	2	13,949	18	23
United Colliery Co.	United.	3	13,236	20	26
Cabin Creek M. Co.	Cabin Cr. Nos 1 and 2.	6	61,996	98	98
Balmont Coal Co.	Coalburg and Lewiston.	5	12,906	25	31
Equitable Coal Co.	Kanawha and Coalburg	7	28,708	60	76
Tue Pawnee C. Co.	Black Cat.	2	5,301	40	48
Seranton	Seranton.	5	53,751	45	49
Paint Creek	Paint Creek.	3	56,596	50	55
Standard	No. 1 and 2	2	7,145	6	6
Chesapeake M. Co.	Chesapeake	4	29,278	25	29
Imperial Colliery Co.	No. 1	7	22,129	17	24
Montgomery Coal Co.	Kanawha	3	11,949	18	21
Kanawha & Coal River C. Co.	Black Band, No. 1.	14	54,493	40	54
" " "	Black Band, No. 2.	2	14,301	11	15
" " "	Black Band, No. 3.	2	1,892	18	22
Morris Creek Coal Co.	Morris Creek, No. 1.	3	21,000	40	48
Totals.		198	1,281,242	1,540	1,874
Putnam County.					
Black Betsey C. & M. Co.	Black Betsey.	1	5,357	12	14
Totals.		1	5,357	12	14
Fayette County.					
Kanawha & Hocking C. & C. Co.	K. & H., No. 111.	4	68,947	60	68
" " "	K. & H., No. 112.	4	89,067	75	83
" " "	K. & H., No. 114.	3	79,292	75	81
" " "	K. & H., No. 115.	4	112,544	80	88
" " "	K. & H., No. 117.	2	38,146	40	44
Columbus Iron & Steel Co.	No. 1.	5	53,295	28	34
Kanawha Gas C. Co.	Kanawha Gas.	5	95,538	65	75
W. R. Johnson & Co.	Oakland.	4	84,821	40	48
Boomer C. & C. Co.	Boomer, No. 1.	3	14,284	90	96
" " "	" " No. 2.	6	46,000	12	102

Boomer C. & C. Co.	Boomer No. 3	8	89,490	75	6
Gordon C. & C. Co.	Eureka No. 5	3	43,928	23	2
Mecca C. & C. Co.	St. Clair No. 2	3	6,072	8	4
	No. 2	3	9,733	8	5
	No. 5	1	7,143	10	2
Economy Fuel Co.	Economy	2	5,780	10	6
W. R. Johnson	Eagle or No. 1	4	6,189	8	6
Carver Bros. Co.	Edgewater Nos. 1 & 2	2	6,000	4	4
The Mt. Carlton Co., Ltd.	Vulcan	3	20,601	20	8
The Gt. Kanawha Colliery Co. Ltd.	Edgemoor	4	6,240	10	2
"	Dillon	2	6,146	7	2
"	Edwards	2	6,579	1	2
"	Edwards	1	47,458	30	8
Cardiff Coal Co.	Kimberly Nos. 1 & 2	2	10,877	20	4
"	Columbia	17	114,532	75	20
The Ganley Mt. C. Co.	Ganley Mt. Nos. 1 & 2	4	7,063	20	4
The Isabel C. & C. Co.	Gloucester	4	10,300	20	4
"	Sunrise	2	62,471	38	4
Michigan C. Co.	Michigan	18	15,933	30	16
The Low Moor Iron Co.	Kay Moor No. 1	2	18,341	20	14
Nuttallburg C. & C. Co.	Nuttallburg	4	13,000	6	26
Rothwell C. Co.	Dubree	4	6,130	7	11
Chapman I. C. & C. Co.	Elverton	5	31,382	10	4
Longdale Iron Co.	Cliff Top	8	24,507	13	17
The New River Smokeless C. Co.	Brooklyn	14	52,891	18	4
"	Red Ash	14	3,063	8	23
"	Rush Run	11	38,160	25	8
The Thurmond C. Co.	Thurmond	3	13,000	1	20
Ephraim Creek C. & C. Co.	Buffalo & Slater	2	81,372	25	11
Prudence Coal Co.	Prudence	2	20,717	10	30
The Star C. & C. Co.	Whipple	8	17,063	12	18
Whipple Colliery Co.	Macdonald	7	13,614	14	14
Macdonald Colliery Co.	Scarbro No. 1	2	25,177	50	62
The White Oak Fuel Co.	Carlisle	4	10,111	8	12
"	Oakwood	7	43,187	40	4
W. P. Rend	Rend Nos. 1, 2, 3, 4 & 5	10	1,580,882	1,346	15
Totals		222	1,637	281	
<i>Nicholas County.</i>					
Bell Creek Coal Co.	Bell Creek	2	5,785	10	14
The Cambria M. Co.	Cambria	2	4,500	12	2
Mt. Carmel C. & C. Co.	Mt. Carmel	1	4,147	4	6
Totals		5	10,488	26	34
<i>McDowell County.</i>					
The Tidewater C. & C. Co.	Tidewater	1	4,237	20	24
Peerless C. & C. Co.	Peerless	3	23,673	20	26

**COMPANIES OPERATING MINE MACHINES AND THE QUANTITY OF COAL PRODUCED BY THEM FOR
THE YEAR ENDING JUNE 30th, 1904.**

NAME OF COMPANY.	NAME OF MINE.	No. of mine ma- chines.	Tons of coal pro- duced by machines. (tons of 2,240 lbs.)	No. of machine miners.	No. of machine runners and helpers.	Total No. men em- ployed by machine mining.
<i>McDowell County. —Continued.</i>						
Algoma C. & C. Co.	Algoma.	4	.....	.....	.....	.....
Indian Ridge C. & C. Co.	Indian Ridge.	2	.....	.....	.....	.....
McDowell C. & C. Co.	McDowell.	6	61,916	75	12	87
Ashland C. & C. Co.	Ashland Nos 1 and 2	2	.....	.....	.....	.....
Cherokee Colliery Co.	Cherokee	5	4,837	8	3	12
Norfolk C. & C. Co.	Norfolk and Angle.	3	14,400	10	4	14
Lick Branch C. & C. Co.	Lick Branch.	4	18,000	12	2	10
Shamokin C. & C. Co.	Shamokin	3	14,400	8	4	16
Vaughan C. & C. Co.	Cambridge.	3	8,923	20	6	26
Twin Branch M. Co.	Twin Branch.	3	13,032	30	6	36
Mohawk C. & C. Co.	Mohawk	4	31,911	30	6	36
Oregon Coal Co.	McClaren	2	1,000	5	2	7
Zenith C. & C. Co.	Zenith Nos 1 and 2.	4	24,000	14	7	21
Totals.....		49	221,389	231	66	327
<i>Mercer County.</i>						
Caswell Creek C. & C. Co.	Caswell	6	29,512	25	8	33
Louisville C. & C. Co.	Nos 1, 2 and 3	5	11,745	18	8	26
The Goodwill C. & C. Co.	Goodwill	3	11,874	7	6	13
Sagamore C. & C. Co.	Sagamore.	1	1,700	6	2	8
Totals.....		15	54,331	56	24	80
<i>Mingo County.</i>						
Pearl C. M. Co.	Pearl	1	158	5	2	7
Red Jacket C. & C. Co.	Red Jacket	2	11,400	18	6	24
Thacker C. & C. Co.	Martine	10	113,392	60	20	90
Glen Alum C. Co.	Thacker Nos. 1, 2 and 3	11	144,596	90	28	118
War Eagle C. Co.	Glen Alum Nos 1 and 2.	9	129,617	63	30	93
Hatfield Colliery Co.	War Eagle	4	27,153	33	8	41
Pappoose C. Co.	Hatfield.	3	15,250	23	6	29
Margaret M. Co.	Pappoose	4	34,309	30	8	38
	Margaret	4	12,222	23	8	35

*Not in use.

Mingo County.—Continued.

Rawl C. & C. Co.....	Rawl.....	2	711	4	4	4	8
Totals.....		50	488,786	387	120	477	
Barbour County.							
Philippi C. M. Co.....	Nos. 1, 2, 3 & 4.....	6	67,780	50	8	58	
Tygart's River C. Co.....	Arden.....	4	30,982	28	6	34	
Southern C. & Trans. Co.....	Berryburg.....	22	289,177	140	34	174	
The Century Coal Co.....	Century No. 1.....	6	50,307	25	8	38	
Maryland Smokeless C. Co.....	Dartmoor No. 1.....	4	1,232	5	3	8	
Totals.....		42	439,518	248	59	307	
Grant County.							
Davis C. & C. Co.....	Shaft No. 22.....	3	58,018	60	16	76	
" " " " " ".....	Shaft No. 33.....	3	40,076	43	6	49	
Totals.....		6	98,094	103	22	125	
Mineral County.							
Davis C. & C. Co.....	No. 19.....	4					
Totals.....		4					
Preston County.							
Austen C. & C. Co.....	Austen No. 2.....	2	3,784	12	2	14	
Hamilton C. & C. Co.....	Newburg Shaft.....	8	23,000	50	12	62	
Gorman C. & C. Co.....	Gorman No. 2.....	6	29,660	20	8	28	
Irona Coal Co.....	Irona Nos. 1 & 2.....	8	54,384	70	16	86	
Merchants Coal Co.....	Nos. 2 & 3.....	10	203,222	180	20	200	
Oakland C. & C. Co.....	Corinth.....	3	1,274	4	4	8	
Kingwood Coal Co.....	Howesville.....	6	30,320	37	12	49	
Orr C. & C. Co.....	Vulcan.....	7	20,600	25	14	39	
Manufacturers C. & C. Co.....	Victoria No. 2.....	1	1,550	4		4	
Atlantic C. & C. Co.....	Atlantic Nos. 1 & 2.....	10	28,891	65	20	85	
Totals.....		61	396,835	467	108	575	
Randolph County.							
Maryland Smokeless C. Co.....	Leiter No. 1.....	2	11,181	10	4	14	
Totals.....		2	11,181	10	4	14	
Taylor County.							
The Flemington C. & C. Co.....	Flemington.....	* 7	21,519	25	3	28	
Totals.....		7	21,519	25	3	28	
Tucker County.							
Davis C. & C. Co.....	Nos. 25.....	10	88,716	54	12	66	
Cumberland Coal Co.....	Douglas No. 4.....	2	33,660	30	4	34	
Beacon C. & C. Co.....	Beacon.....	3	17,024	25	4	29	
Totals.....		15	139,400	109	20	129	

*Only 2 in use.

**NUMBER AND KINDS OF MINING MACHINES IN THE
STATE, FOR THE YEAR ENDING JUNE 30th, 1904.**

DISTRICT.	COUNTY	Electrical Mine Machines.				Compressed Air Mine Machines.				Total No. of Machines.	Tons of coal Pro- duced by Mac- hines (tons of 2,240 lbs.)	
		Jeffrey.	Morgan- Gardner.	Goodman's Link-Belt	Sullivan.	Harrison.	Ingersoll- Sergeant.	Sullivan.	Jeffrey.			Morgan- Gardner.
First	Brooke	1				6	2	5			13	5,582
First	Hancock										1	29,139
First	Harrison	43	17	3		51	30	11	3	5	163	1,810,423
First	Marion	43	11			19	14	5	9		101	1,422,108
First	Monongalia	3									10	89,843
First	Marshall	9	4			7					20	281,576
Second	Clay		3								3	219
Second	Kanawha	77	110	8		3					198	1,261,242
Second	Putnam	1									1	5,357
Third	Fayette	56	41	16	4	96		9			222	1,530,882
Third	Nicholas	3	2								5	10,438
Fourth	McDowell	3				24	20	2			49	221,369
Fourth	Mercer			1			8	6			15	54,331
Fourth	Mingo	13	8		1	13	15				50	488,786
Fifth	Barbour	18	4				8	6			42	439,518
Fifth	Grant						6				6	98,094
Fifth	Mineral						2	2			4	396,685
Fifth	Preston		8			36	5	12			61	396,685
Fifth	Randolph							2			2	11,181
Fifth	Taylor		7								7	21,519
Fifth	Tucker						13	2			15	139,400
Totals		270	215	28	5	268	123	62	12	5	988	8,317,622

NUMBER AND KINDS OF MINING MACHINES IN THE STATE FOR THE YEAR ENDING JUNE 30th, 1904.

NAME OF COMPANY.		NAME OF MINE.		Electrical Mine Machines.			Compressed Air Mine Machines.					Total No. of Machines.	Tons of coal produced by machines (tons of 2,240 lbs.)	
				Jeffrey.	Morgan-Gardner.	Goodman's Link Belt.	Sullivan.	Harrison.	Ingersoll-Sergeant.	Sullivan.	Jeffrey.			Morgan-Gardner.
<i>Harrison County. - Continued.</i>														
Cook C. & C. Co.	Girard No. 1		3					3	2	3			3	92,866
Meadow Brook C. & C. Co.	Erle							7		2			9	65,992
Madeira-Hill-Clark C. Co.	Waldo									2			9	90,908
Rosebud Coal Co.	Rosebud					* 1		3					*	
Hutchinson Fuel Co.	Byron Nos. 1 & 2.									6			1	44,370
The Phoenix C. M. & C. Co.	Phoenix.								2				1	8,953
O'Gara C. M. Co.	O'Gara.								5				1	39,553
Lukens Coal Co.	Lukens.		3						3				3	15,151
Chieftain Coal Co.	Chieftain Nos. 1 & 2.													11,573
Totals.				43	17	3		51	30	11	3	5	163	1,810,423
<i>Marion County.</i>														
Fairmont Coal Co.	Murray	6											6	86,509
"	Montana	6												72,704
"	W. Fair Shaft	5												92,318
"	New England	9												150,396
"	Gaston	2												71,875
"	Monongah Nos. 2 & 5.	7												181,317
"	"		5											143,215
"	No. 3.		6											159,096
"	No. 6.								7	1			8	108,049
"	Anderson													30
"	Highland													61,280
"	Middleton.	4												84,570
"	Chiefton	4												118,758
George's C. & I. Co.	Chatham No. 1.							6	3	4	6		19	49,107
Federal C. & C. Co.	Federal No. 1.							9			2		11	42,583
New Central C. Co.	Stafford.							4	4		1		9	1,422,108
Totals.				43	11			19	14	5	9		101	1,422,108
<i>Monongalia County.</i>														
Fairmont Coal Co.	Beechwood	3											3	59,037

*just being installed.

West Virginia Coal Co.	Richard							3	13,822
Deckers Creek C. & C. Co.	Deckers Creek							4	16,984
Totals.		3						10	80,843
<i>Marshall County.</i>									
Hitchman C. & C. Co.	Hitchman	7						7	151,184
Wheeling Steel & Iron Co.	Benwood	2						2	46,909
Glendale Coal Co.	Glendale	4						4	49,023
Mound Coal Co.	Moundsville						7	7	34,455
Totals.		9	4					20	281,576
<i>Clay County.</i>									
Dorfee C. M. Co.	Elk Manor		3					3	219
Totals.			3					3	219
<i>Kanawha County.</i>									
The Elk Coal Co.	Turner	4						4	26,903
Black Hawk Coal Co.	Black Hawk	1						1	1,428
Campbells Creek C. Co.	No. 1	10						10	88,242
Quincy Coal Co.	Quincy		2					2	7,946
Kanawha & Hocking C. & C. Co.	K. & H. No. 101				3			3	23,016
"	K. & H. No. 103				2			2	13,148
"	K. & H. No. 104				1			1	6,457
"	K. & H. No. 105				1			1	95,623
"	K. & H. No. 106	2			4			4	74,406
"	K. & H. No. 108				2			2	13,048
"	K. & H. No. 109				2			2	13,452
"	K. & H. No. 110				2			2	16,785
Kellys Creek Colliery Co.	Kellys Cr.	4						4	13,809
Cannelton Coal Co.	Cannelton No. 2	3						3	48,310
The Marnet Co.	Leus Creek	3			4			4	38,057
Winfrede Coal Co.	Monarch	12						12	74,676
"	South		4					4	14,927
"	North		10					10	61,849
Coalburg Colliery Co.	Ronda		1					1	1,455
Stevens Coal Co.	Acme	4						4	22,321
Dry Branch Coal Co.	Empire	2						2	1,786
Belleclare Coal Co.	No. 1	1			1			1	11,213
Cardiff Coal Co.	Nos. 2 & 3	5			3			5	33,917
"	Belleclare & Ruby				5				11,096
"	Oakley		2						25,099
"	Climax		3						1,406
"	Horton								5,732
Holly Coal Co.	Holly	1						1	446
Cherokee Coal Co.	Cherokee								

*Just being installed.

Columbus Iron & Steel Co.	No. 1.	1	4	5	53,283
Kanawha Gas	Kanawha Gas	1	4	5	96,596
Oakland	Oakland	1	1	4	84,821
W. R. Johnson & Co.	No. 1	2	1	3	14,284
Boomer C. & C. Co.	No. 2	2	1	3	46,000
"	No. 3	3	3	3	89,440
Gordon C. & C. Co.	No. 3	3	3	3	43,628
Mecca C. & C. Co.	No. 2	3	3	3	6,000
Economy Fuel Co.	No. 6	2	2	2	6,072
W. R. Johnson	No. 8	1	2	2	2,733
Carver Bros. Co.	Eagle or No. 1	2	2	4	7,143
The Mt. Carbon Co., Ltd.	Edgewater Nos. 1 & 2	1	1	4	3,780
The Gt. Kanawha Coll. Co., Ltd.	Vulcan	1	1	3	6,169
"	Excelsior	2	2	3	6,000
"	Dagby	4	4	4	20,801
"	Brewster	2	1	2	6,340
"	Kimbals	1	1	2	6,476
"	Columbia	1	4	1	6,473
"	Garley Mt. Nos. 1 & 2	1	2	4	47,457
Cardiff Coal Co.	Elmo	2	2	2	10,876
The Ganley Mountain C. Co.	Columb	17	17	17	114,532
The Isabel C. & C. Co.	Sunnyside	4	2	2	9,406
Michigan Coal Co.	Michigan	2	2	2	7,083
The Low Moor Iron Co.	Key Moor No. 1	2	18	2	10,340
Nuttallburg C. & C. Co.	Nuttallburg	2	2	18	62,471
Rothwell Coal Co.	Dubree	4	4	2	18,341
Chapman I. C. & C. Co.	Elverton	3	3	5	13,000
Longdale Iron Co.	Cliff Top	8	2	5	13,000
The New River Smokeless C. Co.	Brooklyn	8	8	8	6,130
"	Red Ash	14	14	8	31,882
"	Rush Run	14	14	14	24,577
The Thurmond Coal Co.	Thurmond	1	1	14	52,891
Ephraim Creek C. & C. Co.	Buffalo & Slater	1	3	3	3,063
Prudence Coal Co.	Prudence	3	3	3	38,160
The Star C. & C. Co.	Star	2	2	2	13,000
Whipple Colliery Co.	Macdonald	2	2	2	31,572
Macdonald Colliery Co.	Scarbro No. 1	7	7	8	20,717
The White Oak Fuel Co.	Carlisle	7	1	7	19,063
"	Oakwood	7	4	7	13,614
W. P. Rend	Rend Nos. 1, 2, 3, 4 & 5.	4	4	2	25,177
Totals.		56	41	10	10,111
Nicholas County.		4	9	222	43,187
Bell Creek Coal Co.	Bell Creek	2	2	2	1,630,862
The Cambria M. Co.	Cambria	1	2	2	5,785
Mt. Carmel C. & C. Co.	Mt. Carmel	1	1	1	4,506
Totals.		3	2	5	147
					10,438

NUMBER AND KINDS OF MINING MACHINES IN THE STATE, FOR THE YEAR ENDING JUNE 30th, 1904.

NAME OF COMPANY.	NAME OF MINE.	Electrical Mine Machines.				Compressed Air Mine Machines.				Total No. of Machines.	Tons of coal produced by machines (Tons of 2,240 lbs.)
		Jeffrey.	Morgan-Gardner.	Goodman's Link-Belt.	Sullivan.	Harrison.	Ingersoll-Sergeant.	Sullivan.	Jeffrey.			Morgan-Gardner.
<i>McDowell County.</i>											
The Tidewater C. & C. Co.	Tidewater	1				1					4,287
Peoples C. & C. Co.	Peoples										23,673
Algonquin C. & C. Co.	Algonquin										
Indian Ridge C. & C. Co.	Indian Ridge										
McDowell C. & C. Co.	McDowell	2				2					61,916
Ashland C. & C. Co.	Ashland Nos. 1 & 2										4,884
Cherokee Colliery Co.	Cherokee										14,400
Norfolk C. & C. Co.	Norfolk & Angle										18,000
	Lick Branch										14,400
Shamokin C. & C. Co.	Shamokin										8,929
Vaughan C. & C. Co.	Cambridge										13,062
Twin Branch M. Co.	Twin Branch										61,911
Mohawk C. & C. Co.	Mohawk										1,000
Oregon Coal Co.	McClaren										24,000
Zenith C. & C. Co.	Zenith Nos. 1 & 2.										
Totals		3				24	20	2			221,369
<i>Merrier County.</i>											
Caswell Creek C. & C. Co.	Caswell							6			29,512
Louisville C. & C. Co.	Nos. 1, 2 & 3.						5				11,745
The Goodwill C. & C. Co.	Goodwill			1			3				11,374
Sagamore C. & C. Co.	Sagamore.										1,700
Totals				1			8	6			54,381
<i>Mingo County.</i>											
Pearl C. M. Co.	Pearl	1									156
Red Jacket C. & C. Co.	Maritime	2									11,400
Thacker C. & C. Co.	Red Jacket	10									113,362
Glen Alum C. Co.	Thacker Nos. 1, 2 & 3										144,565
War Eagle C. Co.	Glen Alum Nos. 1 & 2		8		1		11				129,617
Hatfield Colliery Co.	War Eagle						4				27,188
Pappoose C. Co.	Hatfield					3					15,250
	Pappoose e					4					34,309

*Not in use.

TABLE SHOWING THE COMPARATIVE STATEMENTS OF
THE COKE PRODUCTIONS FOR 1904 AND 1903.

COUNTY.	1904	1903	Increase of 1904 Over 1903.	Decrease of 1904 Under 1903.
Harrison.....	621	62,382		61,761
Marion.....	102,416	282,924		180,508
Monongalia.....	22,999	30,509		7,510
Kanawha.....	9,547	25,789		16,242
Fayette.....	434,919	437,060		2,171
McDowell.....	1,170,200	1,016,988	153,212	
Mercer.....	190,132	167,567	22,565	
Barbour.....	19,128	20,991		1,863
Preston.....	27,611	34,627		7,016
Randolph.....	77,077	120,387		43,310
Tucker.....	221,801	284,122		62,321
Totals.....	2,276,451	2,483,376	175,777	382,70

TABLE SHOWING NUMBER OF COKE OVENS NOT IN USE,
BY COUNTIES—1904.

DISTRICT.	COUNTY.	No. of Coke Ovens not in use.	Field in which located.
First.....	Harrison.....	232	Upper Monongahela.
First.....	Marion.....	552	
First.....	Monongalia.....	75	" "
Second.....	Kanawha.....	30	Kanawha.
Third.....	Fayette.....	1,135	New River.
Third.....	Raleigh.....	80	
Fourth.....	McDowell.....	3,235	Pocahontas.
Fourth.....	Mercer.....	1,119	
Fifth.....	Barbour.....	1	Upper Monongahela.
Fifth.....	Preston.....	401	
Fifth.....	Randolph.....	234	" "
Fifth.....	Tucker.....	227	Upper Potomac.
	Total.....	7,321	

NUMBER OF COKE OVENS NOT IN USE—1904.

NAME OF COMPANY.	NAME OF MINE.	No. Coke Ovens not in Use
<i>Harrison County.</i>		
Fairmont Coal Co.	Enterprise	60
" " "	Gypsy & Harbert	80
" " "	Meadowbrook	50
" " "	Farnum	22
Hutchinson Fuel Co.	Byron Nos. 1 & 2	20
Total		232
<i>Marion County.</i>		
Fairmont Coal Co.	Murray	18
" " "	Montana	49
" " "	W. Fair-Shaft	26
" " "	New England	94
" " "	Gaston	89
" " "	Monongah Nos. 2 & 5	122
" " "	" No. 3	24
Powell C. & C. Co.	Hutchinson	50
	Powell	70
Total		552
<i>Monongalia County.</i>		
Opekiska C. & C. Co.	Opekiska	20
Fairmont Coal Co.	Beechwood	5
West Virginia Coal Co.	Richard	50
Total		75
<i>Kanawha County.</i>		
Cannelton Coal Co.	Cannelton No. 2	30
Total		30
<i>Fayette County.</i>		
Kanawha & Hocking C. & C. Co.	K. & H. No. 111	15
" " " "	" No. 112	15
" " " "	" No. 114	14
" " " "	" No. 115	91
Gordon C. & C. Co.	Central No. 1	44
W. R. Johnson	Eagle or No. 1	100
Carver Bros. Co.	Eagle, Cal. & No. 8	64
The Mt. Carbon Co., L'td.	Vulcan & South	102
The Gt. Kanawha Colliery Co., L'td.	No. 1 & Edwardes	67
Newcastle Coal Co.	Gaymont	25
The Isabel C. & C. Co.	Sunnyside	18
The Fayette C. & C. Co.	Fayette	12
The Low Moor Iron Co.	Kay Moor No. 1	21
Nuttallburg C. & C. Co.	Nuttallburg	85
Victoria C. & C. Co.	North Side	20
Chapman I., C. & C. Co.	Elverton	59
Longdale Iron Co.	Cliff Top	6
The New River Smokeless Coal Co.	Brooklyn	5
" " " "	Red Ash	80
" " " "	Rush Run	17
" " " "	Sun No. 2	20
Fire Creek C. & C. Co.	Fire Creek	36
Echo C. & C. Co.	Echo	50
Beury C. & C. Co.	Stone Cliff	48
Beechwood C. & C. Co.	Beechwood No. 1	7
The Turkey Knob Coal Co.	Turkey Knob	30
Macdonald Colliery Co.	Macdonald	10
Quinnimont Coal Co.	Big Q	3
Greenwood Coal Co.	Greenwood	11
W. P. Rend	Nos. 1, 2, 3, 4 & 5	60
Total		1,135
<i>Raleigh County.</i>		
The New River Smokeless Coal Co.	Royal	80
Total		80
<i>McDowell County.</i>		
The Tidewater C. & C. Co.	Tidewater	200
Bottom Creek C. & C. Co.	Bottom Creek	127
Peerless C. & C. Co.	Peerless	107

NUMBER OF COKE OVENS NOT IN USE—1904.

NAME OF COMPANY.	NAME OF MINE.	No. Coke Ovens not in use.
<i>McDowell County—Continued.</i>		
Empire C. & C. Co.	Empire	100
Shawnee C. & C. Co.	Shawnee	113
Eureka C. & C. Co.	Eureka	90
Pulaski Iron Co.	Pulaski	50
Keystone C. & C. Co.	Keystone Nos 1 & 2	95
Algoma C. & C. Co.	Algoma	135
Gilliam C. & C. Co.	Gilliam	147
Rolfe C. & C. Co.	Rolfe	35
Roanoke C. & C. Co.	Roanoke	55
Indian Ridge C. & C. Co.	Indian Ridge	140
Arlington C. & C. Co.	Arlington	83
Greenbrier C. & C. Co.	Greenbrier	70
McDowell C. & C. Co.	McDowell	110
Ashland C. & C. Co.	Ashland Nos 1 & 2	285
Cherokee Colliery Co.	Cherokee	75
Elk Ridge C. & C. Co.	Elk Ridge	41
Lynchburg C. & C. Co.	Lynchburg	101
Powhatan C. & C. Co.	Powhatan	113
Upland C. & C. Co.	Upland Nos 1 & 2	102
Houston C. & C. Co.	Houston Nos 1 & 2	13
Crozer C. & C. Co.	Crozer Nos 1 & 2	174
Turkey Gap C. & C. Co.	Turkey Gap	40
Norfolk C. & C. Co.	Norfolk and Angle	227
	Lick Branch	28
	Delta	20
Shamokin C. & C. Co.	Shamokin	50
Elkhorn C. & C. Co.	Elkhorn	5
United States C. & C. Co.	No. 1	111
	No. 2	84
	No. 3	57
	No. 6	52
Total		3,235
<i>Mercer County.</i>		
Mill Creek C. & C. Co.	Mill Creek	95
	Coaldale	90
Buckeye C. & C. Co.	Buckeye	111
Caswell Creek C. & C. Co.	Caswell	111
Booth-Bowen C. & C. Co.	Booth-Bowen	122
Louisville C. & C. Co.	Nos 1, 2 & 3	32
The Goodwill C. & C. Co.	Goodwill	40
Pinnacle C. & C. Co.	Pinnacle	116
Crane Creek C. & C. Co.	Nos 1 & 2	1
Sagamore C. & C. Co.	Sagamore	185
Crystal C. & C. Co.	Crystal	70
The Thomas C. Co.	Thomas	146
Total		1,119
<i>Barbour County.</i>		
Davis Colliery Co.	Junior	1
Total		1
<i>Preston County.</i>		
Austen C. & C. Co.	Austen No. 1	3
	2	82
Hamilton C. & C. Co.	Newburg Shaft	95
Gorman C. & C. Co.	Gorman No. 2	30
Orr C. & C. Co.	Vulcan	60
Manufacturers C. & C. Co.	Victoria No. 1	24
	2	40
West Virginia C. Co.	Masontown	67
Total		401
<i>Randolph County.</i>		
Davis Colliery Co.	Coalton	100
	Harding	9
Maryland Smokeless C. Co.	Weaver No. 1	110
	No. 2	15
Total		234

NUMBER OF COKE OVENS NOT IN USE—1904.

NAME OF COMPANY.	NAME OF MINE.	No. Coke Ovens not in use.
<i>Tucker County.</i>		
Davis C. & C. Co.....	Nos 23 & 34.....	21
" " ".....	No. 35.....	25
" " ".....	No. 36.....	38
" " ".....	No. 37.....	78
Cumberland C. Co.....	Douglas No. 3.....	65
Total.....		227

PRODUCTION OF COKE BY COUNTIES FOR THE YEAR ENDING JUNE 30th, 1904.

DISTRICT.	COUNTY.	No. of coke plants reported.	Total tons of coal used in ovens (tons of 2,000 lbs.)	Total tons of coke produced (tons of 2,000 lbs.)	Percentage of yield.	Total No. of coke ovens reported.	Total No. of coke ovens reported not in use.	Average No. of coke ovens operated during the year.		Average No. of days ovens were operated.	No. of men employed on ovens.
								In coun-ty.	Per plant.		
First.....	Harrison.....	6	907	631	68.4	232	232	30	30	140	2
First.....	Marion.....	12	190,058	102,416	53.8	1,048	552	496	53	176	168
First.....	Monongalia.....	3	39,191	22,999	58.6	141	75	66	32	249	22
Second.....	Kanawha.....	2	21,458	9,547	44.5	96	30	68	39	150	26
Third.....	Fayette.....	35	734,322	434,919	59.1	3,044	1,135	1,909	72	231	646
Third.....	Raleigh.....	1		80		80	80				
Fourth.....	McDowell.....	35	1,870,452	1,170,900	62.5	7,391	3,235	4,156	127	233	2,022
Fourth.....	Mercer.....	12	319,118	190,132	59.9	1,899	1,119	780	70	245	286
Fifth.....	Barbour.....	1	26,883	19,128	71.7	51	1	50	50	227	15
Fifth.....	Preston.....	9	46,952	27,611	58.7	616	401	215	36	127	73
Fifth.....	Randolph.....	4	112,161	77,077	68.7	530	234	296	69	172	76
Fifth.....	Tucker.....	5	372,622	221,801	59.5	709	227	482	99	248	175
Totals.....		125	3,733,924	2,276,451	60.9	15,857	7,321	8,536	67	222	3,511

PRODUCTION OF COKE FOR THE YEAR ENDING JUNE 30th, 1904.

NAME OF COMPANY.	NAME OF MINE.	Tons of coal used in ovens (tons of 2,000 lbs.)	Tons of coke produced (tons of 2,000 lbs.)	No. of coke ovens reported.	Avg. No. ovens per plant.	Avg. days ovens were operated.
<i>Harrison County.</i>						
Fairmont Coal Co.	Enterprise			60		
" "	Gypsy & Harbert			80		
" "	Meadowbrook			50		
" "	Farmore			22		
Fairmont & Baltimore C. & C. Co.	Farmore	907	621	30	30	140
Hutchinson Fuel Co.	Byron Nos. 1 & 2			20		
Totals		907	621	232	30	140
<i>Marion County.</i>						
Fairmont Coal Co.	Murray			96	78	128
" "	Montana	335		150	101	276
" "	W. Fair-Shaft	88,642	49,613	36		
" "	New England	132		94		
" "	Gas on	287		86		
" "	Monongah Nos. 2 & 5	24,684	17,536	222	100	95
" "	Monongah No. 3			99	75	50
" "	Monongah No. 6					
" "	Penns.	7,939		12	12	225
" "	Highland	7,652	3,649			
" "	Middleton	164				
" "	Chiefton	94				
" "	Hut-hinson			50		
" "	King	24,979	14,202	50	50	280
The Virginia & Pittsburg C. & C. Co.	Chatham Shaft No. 1	24,463	12,016	50	50	296
George's Creek C. & I. Co.	Powell	9,240	5,400	100	30	150
Powell C. & C. Co.						
Totals		180,068	102,416	1,048	58	176
<i>Monongalia County.</i>						
Opekiska C. & C. Co.	Opekiska			20		
Fairmont Coal Co.	Beechwood	25,564	13,874	46	41	223
West Virginia Coal Co.	Richard	13,627	9,125	75	25	230
Totals		39,191	22,999	141	32	249

* Used in Montana ovens.

PRODUCTION OF COKE FOR THE YEAR ENDING JUNE 30th, 1904.

NAME OF COMPANY.	NAME OF MINE.	Tons of coal used in ovens (tons of 2,000 lbs.)	Tons of coke produced (tons of 2,000 lbs.)	No. of coke ovens reported.	Avg. No. ovens used per plant.	Avg. days ovens were operated.
<i>Kanawha County.</i>						
Cannelton Coal Co.	Cannelton No. 2	20,893	9,231	90	60	154
Shenandoah C. & C. Co.	East Bank	632	316	6	6	100
Totals.		21,458	9,547	96	39	150
<i>Fayette County.</i>						
Kanawha & Hocking C. & C. Co.	K. & H. No. 111	31,499	20,000	50	35	150
"	K. & H. No. 112	31,499	20,000	50	35	150
"	K. & H. No. 113	70,199	44,700	114	100	200
"	K. & H. No. 115	68,250	44,250	108	75	150
"	No. 1	6,628	4,418	28	28	95
Columbus Iron & Steel Co.	St. Clair No. 1	1,128	2,475	85	85	60
Gordon C. & C. Co.	St. Clair No. 2	3,250	1,419	50	6	30
"	Central No. 1	1,900	9,848	110	10	150
"	Eagle or No. 1	1,674	2,840	69	5	150
W. R. Johnson.	Eagle, Cal. & No. 3	4,930	22,174	202	100	86
Carver Bros. Co.	Vulcan	37,783	8,973	69	2	365
The Mt. Carbon Co., Ltd.	South	13,443	547	152	152	365
"	No. 1 & Edwards	1,440	27,886	28	28	15
"	Nos. 1 & 2	50,415		13	13	365
The Gt. Kanawha Coll. Co., Ltd.	Gaymont			111	90	285
The Gauley Mt. C. Co.	Sunnyside	60,725	37,027	85	130	129
Newcastle Coal Co.	Fayette	22,400	12,000	150	130	60
The Isabel C. & C. Co.	Kay Moor No. 1	3,318	3,691	64	5	365
The Low Moor Iron Co.	Nuttallburg	27,508	15,733	197	191	365
Nuttallburg C. & C. Co.	North Side	28,473	16,500	65	60	365
Victoria C. & C. Co.	Gulf Top			63	75	365
Chapman I. C. & C. Co.	Gulf Top			130	100	320
Longdale Iron Co.	Brooklyn			96	60	290
The New River Smokeless C. Co.	Red Ash	32,680	17,022	60	12	100
"	Rush Run	24,697	18,640	31	24	240
"	Sun No. 2	23,362	11,907	100	100	365
"	Fire Creek			100	100	365
Fire Creek C. & C. Co.	Echo	2,349	1,223	60	12	100
Beary C. & C. Co.	Stone Cliff	4,890	3,878	31	24	240
Beechwood C. & C. Co.	Beechwood No. 1	33,400	20,040	100	100	365
Harvey C. & C. Co.	Harvey Nos. 1 & 2	41,021	24,414	100	100	365
Collins Colliery Co.	Collins Nos. 1 & 2	10,474	9,688	100	70	225
The Turkey Knob C. Co.	Turkey Knob			100	70	225

Macdonald Colliery Co.	Macdonald	48,711	28,720	100	90	300
Quinnimont Coal Co.	Big Q.	17,972	8,988	98	90	275
Greenwood Coal Co.	Greenwood	2,727	1,628	50	30	180
W. P. Rend.	Rend Nos. 1, 2, 3, 4 & 5	6,804	8,025	100	40	275
Totals.		73,422	43,419	3,044	72	281
The New River Smokeless C. Co.	Raleigh County.					
Totals.	Royal			80		
The Tidewater C. & C. Co.	Tidewater	26,901	17,634	300	100	275
Bottom Creek C. & C. Co.	Bottom Creek	30,419	21,065	204	77	365
Peelless C. & C. Co.	Peelless	38,889	26,178	204	97	243
Empire C. & C. Co.	Empire	55,127	46,217	250	190	265
Shawnee C. & C. Co.	Shawnee	38,294	21,353	188	75	240
Eureka C. & C. Co.	Eureka	35,616	21,150	200	110	313
Pulaski Iron Co.	Pulaski	130,117	80,140	260	210	311
Keystone C. & C. Co.	Keystone Nos. 1 & 2	45,185	22,921	180	85	213
Algoma C. & C. Co.	Algoma	21,423	13,119	225	90	290
Gilliam C. & C. Co.	Gilliam	37,726	21,053	217	70	220
Rolle C. & C. Co.	Rolle	13,888	7,750	100	65	200
Roanoke C. & C. Co.	Roanoke	32,770	21,773	130	75	260
Indian Ridge C. & C. Co.	Indian Ridge	26,041	15,501	200	60	200
Arlington C. & C. Co.	Arlington	39,496	22,040	158	75	200
Greenbrier C. & C. Co.	Greenbrier	56,379	33,249	200	130	258
McDowell C. & C. Co.	McDowell	15,615	15,615	200	90	310
Ashland C. & C. Co.	Ashland Nos. 1 & 2	74,770	45,241	410	125	310
Cherokee Colliery Co.	Cherokee			175		
Elk Ridge C. & C. Co.	Elk Ridge	33,755	18,896	141	100	300
Lynchburg C. & C. Co.	Lynchburg	25,538	25,253	213	112	267
Powhatan C. & C. Co.	Powhatan	60,257	42,047	255	112	266
Upland C. & C. Co.	Upland Nos. 1 & 2	36,290	33,075	232	130	365
Houston C. & C. Co.	Houston Nos. 1 & 2	70,828	56,801	230	217	313
Crozer C. & C. Co.	Crozer Nos. 1 & 2	74,628	46,043	364	180	313
Turkey Gap C. & C. Co.	Turkey Gap	120,423	67,200	240	200	290
Norfolk C. & C. Co.	Angle & Norfolk	70,506	39,345	327	100	300
	Lick Branch	70,739	39,475	158	130	300
	Delta	51,108	28,520	120	100	300
Shamokin C. & C. Co.	Shamokin	75,219	41,975	200	150	300
Elkhorn C. & C. Co.	Elkhorn	72,065	44,000	170	165	366
Tug River C. & C. Co.	Tug River	123,420	8,000	300	50	180
United States C. & C. Co.	No. 1	91,384	77,659	300	249	303
	No. 2	116,063	59,011	270	186	303
	No. 3	16,575	75,496	300	243	303
	No. 6		14,525	100	48	175
Totals.		1,870,452	1,170,200	7,391	127	295

PRODUCTION OF COKE FOR THE YEAR ENDING JUNE 30th, 1904.

NAME OF COMPANY	NAME OF MINE.	Tons of coal used in ovens (tons of 2,000 lbs.)	Tons of coke produced (tons of 2,000 lbs.)	No. of coke ovens reported.	Avg. No. ovens used per plant.	Avg. days ovens were operated.
<i>Mercer County.</i>						
Mill Creek C. & C. Co.	Mill Creek	44,397	27,796	215	120	165
Buckeye C. & C. Co.	Coaldale	19,724	12,370	140	50	165
Caswell Creek C. & C. Co.	Buckeye	33,678	18,375	161	50	365
Booth-Bowen C. & C. Co.	Caswell	45,044	26,812	231	120	225
Louisville C. & C. Co.	Booth-Bowen	35,504	20,491	177	55	190
The Goodwill C. & C. Co.	Nos. 1, 2 & 3	40,485	23,328	125	98	278
Pinnaele C. & C. Co.	Goodwill	23,010	14,130	90	50	210
Crane Creek C. & C. Co.	Pinnaele	20,942	12,465	200	84	300
Sagamore C. & C. Co.	Crane Creek Nos. 1 & 2	30,299	18,019	84	83	295
Crystal C. & C. Co.	Sagamore	17,696	10,544	230	45	365
The Thomas Coal Co.	Crystal	8,439	5,422	100	30	150
	Thomas			146		
Totals		319,118	190,132	1,890	70	245
<i>Barbour County.</i>						
Davis Colliery Co.	Junior	26,983	19,128	51	50	227
Totals		26,983	19,128	51	50	227
<i>Preston County.</i>						
Anstien C. & C. Co.	Anstien No. 1	22,468	13,520	83	80	170
Hamilton C. & C. Co.	Anstien No. 2	14,920	8,453	117	35	150
Gorman C. & C. Co.	Newburg Shaft			95		
Oakland C. & C. Co.	Gorman No. 2	912	538	40	10	17
Orr C. & C. Co.	Corinth	4,480	2,600	50	50	
Manufacturers C. & C. Co.	Vulcan	4,172	2,500	100	40	250
	Victoria No. 1			24		
	Victoria No. 2			40		
West Virginia Coal Co.	Masontown			67		
Totals		48,952	27,611	616	36	127
<i>Randolph County.</i>						
Davis Colliery Co.	Coalton	15,028	10,490	200	100	120
Maryland Smokeless Coal Co.	Harding	48,511	34,108	85	76	298
	Weaver No. 1	25,369	16,998	150	40	190

Randolph County—Continued.				Weaver No. 2							
Maryland Smokeless Coal Co.											
Totals.											
				23,223	15,483	85	70	130			
				112,161	77,077	520	69	172			
Tucker County.											
Davis C. & C. Co.				53,735	31,982 }	114	93	263			
				19,190	11,423 }						
				23,052	13,721 }	61	36	218			
				78,820	46,917 }	147	109	249			
				127,482	75,882 }	252	174	257			
				70,353	41,876 }	135	70	222			
Cumberland Coal Co.											
Totals.				372,622	221,801	709	99	248			

**DETAIL OF THE MEN EMPLOYED AT THE MINES AND OVENS, BY COUNTIES, FOR THE YEAR
ENDING JUNE 30, 1904.**

DISTRICT.	COUNTY.	No. of mines pro- ducing coal.	Ave. No. days mines were oper- ated.	No. of coke plants operated.	Avg. No. days ovens were oper- ated.	Employees.										Sum Total.
						Inside.					Outside.					
						Pick miners.	Machine miners.	Machine & runners & helpers.	Laborers.	Total.	Laborers.	Coke workers.	Total.			
First.	Brooke.....	7	144	.....	.....	136	32	16	41	225	20	.....	20	254
First	Hancock.....	4	181	.....	.....	82	60	8	16	166	14	.....	14	180
First	Harrison.....	45	186	.....	140	607	1,023	250	678	2,561	478	2	480	3,041	
First	Marion.....	25	204	.....	173	1,022	777	172	689	2,690	525	165	683	3,353	
First	Monongalia.....	25	252	.....	249	98	48	15	46	207	20	22	51	258	
First	Marshall.....	5	257	.....	.....	58	238	46	22	488	56	.....	56	524
First	Ohio.....	6	219	.....	.....	150	.....	.....	32	182	18	.....	18	200
Second	Clay.....	1	210	.....	.....	48	30	6	7	91	37	.....	37	128
Second	Kanawha.....	100	170	.....	150	2,072	1,540	334	1,232	5,178	803	26	829	6,007	
Second	Lincoln.....	2	251	.....	.....	70	.....	.....	8	78	5	.....	5	83
Second	Mason.....	8	215	.....	.....	222	.....	.....	47	269	34	.....	34	303
Second	Putnam.....	7	243	.....	.....	756	12	2	138	908	139	.....	139	1,047
Third	Payette.....	114	200	.....	231	5,074	1,346	201	2,041	8,752	1,118	646	1,764	10,516	
Third	Nicholas.....	5	121	.....	.....	94	23	8	17	107	28	.....	28	135
Third	Kaleigh.....	17	139	.....	.....	536	.....	.....	234	770	99	.....	99	899
Fourth	Logan.....	.....	.....	.....	.....	6	.....	.....	10	16	115	.....	115	131
Fourth	McDowell.....	66	227	.....	233	3,926	261	66	2,048	6,301	1,068	2,022	3,110	9,411	
Fourth	Mercer.....	17	235	.....	245	855	56	24	399	1,354	189	.....	475	1,809
Fourth	Mingo.....	31	234	.....	.....	696	357	120	393	1,568	245	.....	245	1,813
Fifth	Barbour.....	14	236	.....	227	315	248	59	150	772	113	15	123	900	
Fifth	Grant.....	4	236	.....	.....	42	103	22	38	205	36	.....	36	241
Fifth	Mineral.....	12	239	.....	.....	490	.....	.....	56	536	73	.....	73	609
Fifth	Preston.....	20	239	.....	127	439	497	108	212	1,233	173	73	246	1,472	
Fifth	Randolph.....	8	184	.....	172	386	10	4	72	472	67	76	143	615	
Fifth	Taylor.....	6	194	.....	.....	223	25	3	77	338	66	.....	66	404
Fifth	Tucker.....	10	250	.....	248	545	109	20	234	958	88	175	203	1,221	
Totals.....		538	209	102	222	18,880	6,821	1,574	9,041	36,316	5,665	3,511	9,176	45,492		

DETAIL OF THE MEN EMPLOYED AT THE MINES AND OVENS FOR THE YEAR ENDING JUNE 30th, 1904.

NAME OF MINE.	NAME OF COMPANY.	EMPLOYEES.						OUTSIDE.			AVG. No. days mines were op- erated.	AVG. No. days ovens were op- erated.	No. of horses and mules inside.			
		Inside.			Total.	Laborers.	Coke workers.	Total.								
		Pick miners.	Machine miners.	Machine runners & helpers.												
<i>Brooke County.</i>																
Blanche	Panhandle Coal Co.	8	17	8	3	11	2	2	2	2	2	2	2	2	2	2
Wiota	John J. Walsh	12	20	8	10	47	8	47	6	6	6	6	6	6	6	6
Lewis	Wells Coal Co.	20	16	2	4	24	2	24	2	2	2	2	2	2	2	2
Bowman	Beech Bottom Coal Co.	16	40	2	2	18	2	18	5	5	5	5	5	5	5	5
No. 1	Lewis-Findley C. Co.	40	40	2	5	42	5	45	5	5	5	5	5	5	5	5
Locust Grove	Lewis-Findley C. Co.	40	40	8	15	38	8	38	7	7	7	7	7	7	7	7
La Belle Shaft	La Belle Iron Works	15	15	8	15	38	8	38	7	7	7	7	7	7	7	7
Totals		136	32	16	41	225	16	225	29	29	2	2	2	2	2	2
<i>Hancock County.</i>																
Porter No. 1	M. M. Cullen	8	60	8	3	11	8	11	3	3	3	3	3	3	3	3
Marquet No. 1	Marquet C. Co.	50	18	2	10	128	2	18	18	8	8	8	8	8	8	8
No. 2	Marquet C. Co.	16	18	2	2	18	2	18	1	1	1	1	1	1	1	1
Brenneman	Congo Coal Co.	8	9	1	1	9	1	9	2	2	2	2	2	2	2	2
Totals		82	60	8	16	106	8	106	14	14	14	14	14	14	14	14
<i>Harrison County.</i>																
Pinnickmick	Clarksburg Fuel Co.	60	50	14	45	169	14	169	25	25	25	25	25	25	25	25
Fall Run	"	11	24	4	21	60	4	60	10	10	10	10	10	10	10	10
Dixie	"	20	20	7	7	27	7	27	2	2	2	2	2	2	2	2
Two Lick	"	5	30	6	10	51	6	51	13	13	13	13	13	13	13	13
Interstate	"	5	35	8	13	61	8	61	12	12	12	12	12	12	12	12
No. 1	O'Neil No. 1	27	27	12	19	58	12	58	10	10	10	10	10	10	10	10
No. 2	O'Neil No. 2	41	41	10	20	71	10	71	13	13	13	13	13	13	13	13
Enterprise	Fairmont Coal Co.	55	50	8	30	143	8	143	28	28	28	28	28	28	28	28
Viropia	"	8	25	6	25	64	6	64	17	17	17	17	17	17	17	17
Ehlen	"	15	32	6	25	78	6	78	15	15	15	15	15	15	15	15
Solon	"	6	40	6	20	72	6	72	15	15	15	15	15	15	15	15
Gypsy & Harbert	"	23	60	20	35	138	20	138	40	40	40	40	40	40	40	40
Maulsby	"	2	15	4	15	36	4	36	7	7	7	7	7	7	7	7
Meadowbrook	"	22	23	4	21	70	4	70	15	15	15	15	15	15	15	15
Farnum	"	15	14	2	15	46	2	46	15	15	15	15	15	15	15	15
Glen Falls	"	10	20	8	15	53	8	53	12	12	12	12	12	12	12	12

DETAIL OF THE MEN EMPLOYED AT THE MINES AND OVENS FOR THE YEAR ENDING JUNE 30th, 1904.

NAME OF MINE.	NAME OF COMPANY.	Employees.						Outside.		Total.	Avg. No. days op-erated.	Avg. No. ovens were op-erated.	No. of horses and mules inside.
		Inside.			Total.	Laborers.	Coke workers.						
		Pick miners.	Machine miners.	Machine runners & helpers.									
Scott.	Clay County—Continued. Gauley Consolidated C. Co.	48	30	6	7	91	20	37	20	180			4
Totals	Kanawha County. Falling Rock Cannel C. Co. The Keystone C. Co. Queen Shoals The Elk C. Co. Lucas-Ray C. Co. Heatherman Pea-Mar No. 1. Sycamore Nos. 1, 2 & 3. Mill Creek Black Hawk Calderwood No. 1. Blk. Diamond Quincy K. & H. No. 101 K. & H. No. 103 K. & H. No. 104 K. & H. No. 105 K. & H. No. 106 K. & H. No. 108 K. & H. No. 109 K. & H. No. 110 K. & H. No. 111 K. & H. No. 112 K. & H. No. 113 K. & H. No. 114 K. & H. No. 115 K. & H. No. 116 K. & H. No. 117 K. & H. No. 118 K. & H. No. 119 K. & H. No. 120 K. & H. No. 121 K. & H. No. 122 K. & H. No. 123 K. & H. No. 124 K. & H. No. 125 K. & H. No. 126 K. & H. No. 127 K. & H. No. 128 K. & H. No. 129 K. & H. No. 130 K. & H. No. 131 K. & H. No. 132 K. & H. No. 133 K. & H. No. 134 K. & H. No. 135 K. & H. No. 136 K. & H. No. 137 K. & H. No. 138 K. & H. No. 139 K. & H. No. 140 K. & H. No. 141 K. & H. No. 142 K. & H. No. 143 K. & H. No. 144 K. & H. No. 145 K. & H. No. 146 K. & H. No. 147 K. & H. No. 148 K. & H. No. 149 K. & H. 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South	Winifrede Coal Co.	64	12	4	36	116	18	216	28
North Pick & Mach.	"	14	44	16	42	116	20	220	27
West	"	27	5	2	30	80	5	217	6
Ronda	Coalburg Colliery Co.	70	25	6	97	39	12	182	14
Acme	Stevens Coal Co.	70	25	6	39	39	7	200	33
Keystone	"	70	25	6	15	85	10	220	10
Empire	"	70	25	6	15	85	10	220	10
Shamrock	"	10	15	4	2	25	1	180	8
No. 1	Shamrock Coal Co.	10	15	4	2	25	1	180	8
Nos. 2 & 3	Dry Branch Coal Co.	6	35	10	40	85	8	173	12
Belleclare & Ruby	Belleclare Coal Co.	6	15	2	6	20	5	165	15
Oakley	Cardiff Coal Co.	10	25	6	8	30	8	120	5
Climax	"	10	25	6	8	42	8	110	4
Horton	"	18	15	4	4	23	4	137	4
Holly	Holly Coal Co.	30	5	5	5	38	3	98	5
Quarrier	Quarrier Coal Co.	30	5	5	5	38	3	98	5
Red Warrior	Red Warrior Coal Co.	50	10	2	13	75	20	187	6
Cherokee	Cherokee Coal Co.	60	20	8	9	60	7	187	7
Wake Forest	Wake Forest M. Co.	20	25	8	6	31	6	60	10
Leewood Nos. 1 & 2	Leewood Colliery Co.	20	20	6	6	31	2	25	3
Devis No. 1	M. T. Davis C. Co.	15	20	6	6	31	2	25	3
Caledonian	Caledonian C. & C. Co.	20	20	6	6	31	2	25	3
Thistle	Thistle Coal Co.	20	20	6	6	31	2	25	3
Pearless	Pearless Gas C. Co.	30	15	4	4	23	5	145	4
La Mont Nos. 1 & 2	La Mont M. Co.	30	70	8	30	138	20	173	12
South & North	Republic Coal Co.	4	20	4	10	38	5	60	6
West	West Virginia Colliery Co.	54	18	4	23	90	10	140	21
No. 1	"	22	15	6	16	106	6	187	12
No. 2	"	10	20	4	10	38	6	130	16
Raccoon	Raccoon Fork C. Co.	90	30	6	17	43	6	150	15
United	United Colliery Co.	37	93	5	30	165	12	149	21
Cabin Cr. Nos. 1 & 2	Cabin Creek M. Co.	15	20	6	6	31	2	25	3
Pine Grove	Pine Grove C. Co.	20	20	6	6	31	2	25	3
Klondike	Robinson C. Co.	45	15	4	9	54	7	252	10
No. 5	"	15	15	4	9	54	7	252	10
East Bank	Shenandoah C. & C. Co.	50	25	6	20	101	3	163	7
Coalburg & Lewiston	Belmont C. Co.	20	40	6	20	101	3	163	12
Kanawha & Coalburg	Equitable Coal Co.	20	40	6	20	101	3	163	12
Black Cat	The Pawnee C. Co.	3	45	10	17	83	10	121	8
Scranton	Scranton Splint C. Co.	5	50	6	11	75	15	143	8
Paint Creek	Paint Creek C. Co.	21	25	4	10	72	16	131	8
Standard	Standard Splint & Gas C. Co.	40	40	6	8	48	5	150	9
Grose	Grose Colliery Co.	20	40	6	12	78	12	180	10
Nos. 1 & 2	Imperial Colliery Co.	30	40	6	12	78	12	180	10
Gas No. 2	Greenbrier Coal Co.	30	40	6	12	78	12	180	10
Wacomah	Wacomah Coal Co.	30	40	6	12	78	12	180	10
No. 1	Detroit & Kanawha C. Co.	14	3	3	5	35	9	110	3
Morton	Morton Coal Co.	35	35	6	17	35	4	121	3
Nuckolls	Nuckolls C. & C. Co.	20	20	6	6	31	2	25	3
Chesapeake	Chesapeake M. Co.	80	17	4	5	35	6	178	4
					25	133	38	262	28

DETAIL OF THE MEN EMPLOYED AT THE MINES AND OVENS FOR THE YEAR ENDING JUNE 30th, 1904.

NAME OF MINE.	NAME OF COMPANY.	Employees.										Ave. No. days mines were op-erated.	Ave. No. ovens in operation per plant.	No. of horses and mules inside.		
		Inside.					Outside.									
		Pick Miners.	Machine Miners.	Machine runners & helpers.	Laborers.	Total.	Laborers.	Coke workers.	Total.							
<i>Kanawha County—Continued.</i>																
Kanawha	Montgomery Coal Co.	40	18	6	20	84	20	20	20	248	20	10				
Black Band No. 1	Kanawha & Coal River Coal Co.	35	40	13	25	118	15	15	15	239	15	15				
Black Band No. 2	" " " "	4	11	4	6	25	7	7	7	249	3	3				
Black Band No. 3	" " " "	10	18	4	14	46	14	14	14	221	7	4				
Carlin	" " " "	20			8	28	3	3	3	156	3	2				
McConihay	West Virginia Peerless Coal Co.	18			4	22	2	2	2	105	5	2				
Hugheson No. 2	Hughes Creek Coal Co.	15			4	19	5	5	5	24	5	2				
Morris Creek No. 1	Morris Creek Coal Co.		40	8	25	73	10	10	10		10	12				
Totals		2,072	1,540	334	1,232	5,178	803	26	829	170	150	38	675			
<i>Lincoln County.</i>																
Rochester	Rochester Coal Co.	25			3	28	2	2	2	251		2				
Lincoln No. 1	Lincoln Coal Co.	45			5	50	3	3	3				10			
Totals		70			8	78	5	5	5	251			12			
<i>Mason County</i>																
Hope	Hope S. and C. Co.	20			4	24	2	2	2	180			3			
McDaniel	Mason City M. Co.	30			4	34	3	3	3	250			3			
Jackson	Liverpool Salt & Coal Co.	22			4	26	3	3	3	190			5			
Harford	Harford City Salt Co.	15			7	22	4	4	4	225			10			
New Castle	Consumers C. & M. Co.	65			15	80	10	10	10	180			4			
Canden	Canden Clay Co.	10			3	13	2	2	2	145			3			
Kiondike	Kiondike Coal Co.	23			3	26	3	3	3	230			4			
Beech Grove.	Beech Grove C. Co.	25			5	30	4	4	4	280			4			
Harris	Thos. D. Harris.	9			2	11	3	3	3				2			
Totals		222			47	269	34	34	34	215			34			
<i>Putnam County.</i>																
Plymouth	Plymouth C. & M. Co.	116			33	149	18	18	18	242			13			
Manila	" " " "	53			11	64	1	1	1				8			
Pocatalico	The Otto-Marmet C. & M. Co.	100			15	115	10	10	10	228			10			
Big Otto Nos. 1 & 2	" " " "	300			50	350	75	75	75	228			32			

Derryhale	McKell C. & C. Co.	100	...	50	150	20	...	20	166	...	36
Kilsyth.	Laura Mining Co.	175	40	75	250	30	...	30	212	...	32
Laura	Dunn Loop C. & C. Co.	40	...	10	50	5	...	5	185	...	8
Dunloop No. 1	...	60	...	25	85	10	...	10	185	...	20
Dunloop No. 2	...	35	...	35	120	12	...	12	178	...	18
Turkey Knob	The Turkey Knob C. Co.	60	...	20	80	8	...	8	216	...	10
Macdonald.	Macdonald Colliery Co.	125	...	30	173	14	...	14	225	...	16
Sugar Creek	Sugar Creek C. & C. Co.	100	12	6	40	20	...	20	300	...	50
Mt. Hope	Mt. Hope C. & C. Co.	1	...	1	2	...	...	...	276	...	38
Scarbro No. 1	The White Oak Fuel Co.	100	10	4	174	40	...	40	100	...	1
Scarbro No. 2	...	18	50	12	80	10	...	10	235	...	34
Carlisle	...	16	8	6	88	18	...	18	230	...	5
Oakwood	...	...	...	14	97	2	...	2	273	...	20
Big Q.	Quinnimont C. Co.	58	35	4	39	2	...	2	202	...	4
Glendale	Glendale Colliery Co.	35	...	4	20	4	...	4	161	...	9
Robins	Robins C. Co.	15	...	5	65	4	...	4	116	...	3
Laurel Creek	Laurel Creek C. Co.	125	...	25	150	15	...	15	180	...	4
Greenwood	Greenwood C. & C. Co.	75	...	38	78	2	...	2	230	...	6
Hemlock Hollow	Hemlock Hollow C. & C. Co.	293	40	15	388	50	...	50	275	...	18
Rend Nos. 1, 2, 3, 4 & 5.	W. P. Rend.	50	...	9	59	9	...	9	275	...	5
Ganoca	Ganoca C. Co.	50	...	20	40	7	...	7	275	...	5
Deltz	Deltz Colliery Co.	40	...	12	52	10	...	10	135	...	8
Lynchburg	Lynchburg Colliery Co.	40	...	...	...	...	...	...	...	...	...
Totals		5,074	1,346	2,041	8,752	1,118	646	1,764	200	231	1,385
<i>Nicholas County.</i>											
Bell Creek	Bell Creek Coal Co.	23	10	4	42	8	...	8	181	...	5
No. 8	Raven C. & C. Co.	6	...	1	7	1	...	1	60	...	1
Gambria	The Gambria M. Co.	...	12	5	19	6	...	6	115	...	2
Mt. Carmel	Mt. Carmel C. & C. Co.	19	4	3	28	4	...	4	90	...	2
National	The National C. & C. Co.	8	...	3	11	9	...	9	22	...	1
Totals		56	26	17	107	28	...	28	121	...	11
<i>Raleigh County.</i>											
Royal	The New River Smokeless C. Co.	35	...	25	60	11	...	11	160	...	15
Lanark Nos. 1 & 2	...	40	...	18	58	15	...	15	170	...	13
Nos. 1, 2, 3 & 4	Raleigh C. & C. Co.	175	...	65	240	30	...	30	214	...	50
Wright No. 1	The Wright C. & C. Co.	90	...	15	105	7	...	7	195	...	12
Pack No. 2	...	32	...	5	37	4	...	4	236	...	4
Piney No. 1	Piney Colliery	12	...	8	20	2	...	2	208	...	2
Davis No. 2	...	20	...	11	31	10	...	10	210	...	6
Kuob Branch	...	5	...	3	8	...	...	...	80	...	3
Terry	Stonewall C. & C. Co.	10	...	...	10	...	...	...	183	...	4
Nos. 2 & 3	...	32	...	9	41	10	...	10	...	...	6
Mabscott	Mabscott C. & C. Co.	45	...	60	105	3	...	3	...	...	6
Oswald	McKell C. & C. Co.	40	...	15	55	5	...	5	100	...	6
Totals		536	...	284	770	99	...	99	189	...	127

	20	20	66	2,048	6,301	1,088	2,022	3,110	227	238	127	730
Big Four.....	30	20	6	66	201	2,048	6,301	1,088	2,022	3,110	227	730
Big Sandy.....	10	61	8	30	81	12	24	88	175	165	120	12
Cambridge.....	10	69	9	25	94	13	15	28	175	165	120	12
Davy-Crockett.....	20	80	8	30	110	10	20	80	275	265	120	12
Tug River.....	30	85	20	75	243	18	43	61	300	225	120	15
Twin Branch.....	16	85	9	26	111	22	88	98	190	180	55	22
Short Creek.....	24	60	6	40	128	15	30	45	221	278	93	18
West.....	30	60	6	40	108	15	20	35	228	210	60	20
Pocahontas Collieries Co.	30	52	16	16	68	11	40	51	284	300	84	12
Antler.....	30	68	25	38	95	20	30	32	235	235	83	8
Cletus.....	30	68	25	38	71	14	18	18	237	237	85	12
Black Stone Mining Co.....	125	68	2	30	60	10	10	10	300	160	30	6
No. 1.....	125	45	2	2	12	4	4	4	240	.....	.....	12
No. 2.....	100	12	3	3	12	3	3	3	120	.....	.....	1
No. 3.....	125	15	3	3	15	4	4	4	120	.....	.....	2
No. 4.....	25	10	3	3	10	3	3	3	120	.....	.....	2
No. 5.....	10	10	3	3	10	3	3	3	120	.....	.....	2
No. 6.....	25	10	3	3	10	3	3	3	120	.....	.....	2
No. 7.....	25	10	3	3	10	3	3	3	120	.....	.....	2
Maher.....	10	20	4	17	29	3	.....	.....	.....	.....	.....	.....
Flournoy No. 1.....	15	25	10	10	15	4	.....	.....	.....	.....	.....	.....
Flournoy No. 2.....	25	25	10	10	25	4	.....	.....	.....	.....	.....	.....
Hensley.....	40	40	6	30	55	10	.....	.....	.....	.....	.....	.....
Mohawk.....	10	10	.....	.....	10	5	.....	.....	.....	.....	.....	.....
Welch.....	10	10	.....	.....	10	5	.....	.....	.....	.....	.....	.....
Hemphill.....	25	25	.....	.....	25	5	.....	.....	.....	.....	.....	.....
Imo.....	20	20	.....	.....	20	5	.....	.....	.....	.....	.....	.....
McClaren.....	20	20	.....	.....	20	5	.....	.....	.....	.....	.....	.....
Zenith.....	10	10	.....	.....	10	5	.....	.....	.....	.....	.....	.....
Helena.....	25	25	.....	.....	25	5	.....	.....	.....	.....	.....	.....
Totals.....	3,926	3,926	24	389	1,384	189	286	475	255	245	70	108
Mercer County.												
Mill Creek.....	61	61	.....	.....	61	12	24	88	175	165	120	12
Coaldale.....	69	69	.....	.....	69	13	15	28	175	165	120	12
Buckeye.....	80	80	.....	.....	80	10	20	80	275	265	120	15
Caswell.....	135	135	8	26	111	22	88	98	190	180	55	22
Booth-Bowen.....	85	85	.....	.....	85	18	43	61	300	225	120	15
Booth-Bowen.....	60	60	.....	.....	60	15	30	45	221	278	93	18
Nos. 1, 2 & 3.....	60	60	.....	.....	60	15	30	45	221	278	93	18
Goodwill.....	7	7	.....	.....	7	15	20	35	228	210	60	20
Pinnacle.....	52	52	.....	.....	52	11	40	51	284	300	84	12
Crane Creek Nos. 1 & 2.....	60	60	.....	.....	60	11	40	51	284	300	84	12
Sagamore.....	68	68	.....	.....	68	20	30	32	235	235	83	8
Crystal.....	45	45	.....	.....	45	14	18	18	237	237	85	12
Yakon.....	10	10	.....	.....	10	10	10	10	300	160	30	6
The Thomas C. Co.....	10	10	.....	.....	10	10	10	10	300	160	30	6
The Weyanoke C. & C. Co.....	8	8	.....	.....	8	4	4	4	240	.....	.....	12
Spring C. M. Co.....	12	12	.....	.....	12	3	3	3	120	.....	.....	1
Piedmont Colliery.....	12	12	.....	.....	12	3	3	3	120	.....	.....	2
No. 1.....	12	12	.....	.....	12	3	3	3	120	.....	.....	2
Totals.....	855	855	24	389	1,384	189	286	475	255	245	70	108

DETAIL OF THE MEN EMPLOYED AT THE MINES AND OVENS FOR THE YEAR ENDING JUNE 30th, 1904.

NAME OF MINE.	NAME OF COMPANY.	Employees.						Outside.		Average No. days mines were op- erated.	Average No. days ovens were op- erated.	Avg. No. ovens in operation per plant.	No. of horses and mules inside.	
		Inside.			Total.	Laborers.	Machine miners.	Machine runners & helpers.	Coke workers.					Total.
		Pick miners.	Laborers.	Total.										
Mingo County.														
Camp Branch.....	Pearl C. M. Co.....	18	5	23	5	2	2	2	153	2	2	4		
Pearl.....	" " " " " " " " " "	20	8	28	8	2	6	6	260	6	6	4		
Spring.....	" " " " " " " " " "	25	9	34	30	6	13	13	216	13	27	9		
Rutherford.....	Red Jacket C. & C. Co.	75	18	93	16	20	106	16	240	12	11	40		
Maritime.....	" " " " " " " " " "	88	6	94	40	178	18	18	290	12	11	40		
Red Jacket.....	" " " " " " " " " "	56	60	116	40	178	18	18	291	12	11	40		
Lick Fork.....	" " " " " " " " " "	75	20	95	12	57	11	11	275	10	29	29		
Grapevine.....	Grapevine C. Co.....	65	90	155	12	77	10	10	260	77	17	17		
Nos. 1, 2 & 3.....	Thacker C. & C. Co.....	78	90	168	47	241	14	14	305	14	38	38		
Lynn.....	Lynn C. & C. Co.....	30	65	95	35	87	3	3	300	3	8	8		
Glen Alum Nos. 1 & 2.....	Glen Alum C. Co.....	20	24	44	4	24	4	4	225	4	4	4		
Winnifrede.....	Nolan C. Co.....	20	35	55	4	83	20	20	275	20	18	18		
War Eagle.....	War Eagle C. Co.....	20	25	45	8	39	4	4	275	4	8	8		
Hatfield.....	Hatfield Colliery Co.....	20	25	45	8	39	4	4	275	4	8	8		
Jackson.....	Jackson C. Co.....	20	25	45	8	39	4	4	275	4	8	8		
Mate Creek.....	Mate Creek C. Co.....	10	10	20	6	16	3	3	250	3	2	2		
Marvin.....	Marvin C. Co.....	20	10	30	6	16	3	3	250	3	2	2		
Fappoose.....	Fappoose C. Co.....	5	30	35	25	68	4	4	238	4	6	6		
Margaret.....	Margaret Mining Co.....	5	25	30	25	68	5	5	235	5	6	6		
Star.....	Star C. Co.....	25	25	50	20	45	3	3	240	3	2	2		
Cedar.....	Cedar C. Co.....	25	25	50	20	45	3	3	240	3	2	2		
Merrimac.....	Merrimac C. & C. Co.....	20	20	40	4	24	3	3	275	3	2	2		
Williamson.....	Williamson C. & C. Co.....	15	25	40	4	29	10	10	18	10	2	2		
Nos. 1 & 2.....	Goodman C. & C. Co.....	8	8	16	3	13	2	2	100	2	1	1		
Howard.....	Howard Colliery Co.....	10	4	14	3	13	4	4	40	4	1	1		
Chatfary.....	Chatfary Colliery Co.....	5	4	9	3	7	2	2	40	2	1	1		
Nos. 1 & 2.....	Rawl C. & C. Co.....	5	4	9	3	11	10	10	180	10	1	1		
Totals.....		666	357	1,023	363	1,536	245	245	254	245	50	247		
Barbour County.														
Junior.....	Davis Colliery Co.....	82	50	132	7	89	9	9	228	227	50	5		
Nos. 1, 2, 3 & 4.....	Phillipi C. M. Co.....	82	50	132	5	63	11	11	190	11	12	12		
Arden.....	Tygarts River C. Co.....	25	28	53	10	44	8	8	214	8	4	4		
Berryburg.....	Southern C. & Trans. Co.....	25	140	165	58	257	50	50	285	50	26	26		
Laurel Creek.....	Laurel Creek C. Co.....	35	34	69	5	40	4	4	285	4	4	4		

Century No. 1.	100	25	8	50	185	20	15	20	275	127	123
No. 2.	12	8	50	150	772	113	15	20	275	127	123
Valley	25	3	3	3	3	3	3	3	3	3	3
Freepoint Smokeless C. & Coking Co.	15	3	3	3	3	3	3	3	3	3	3
Candaces C. & C. Co.	10	2	2	2	2	2	2	2	2	2	2
Maryland Smokeless C. Co.	11	5	3	4	23	3	3	3	3	3	3
Totals	315	248	50	150	772	113	15	20	275	127	123
Grant County.											
Davis C. & C. Co.	60	43	6	10	96	21	21	21	21	21	21
Marion C. & C. Co.	12	32	2	2	32	4	4	4	4	4	4
Buffalo Creek Cumberland C. Co.	30	103	22	38	205	38	38	38	38	38	38
Totals	42	103	22	38	205	38	38	38	38	38	38
Mineral County.											
Davis C. & C. Co.	23	28	3	3	31	12	12	12	12	12	12
No. 10	28	3	3	3	3	3	3	3	3	3	3
No. 18	28	3	3	3	3	3	3	3	3	3	3
No. 8	28	3	3	3	3	3	3	3	3	3	3
No. 20	28	3	3	3	3	3	3	3	3	3	3
No. 9	28	3	3	3	3	3	3	3	3	3	3
No. 6	28	3	3	3	3	3	3	3	3	3	3
No. 8	28	3	3	3	3	3	3	3	3	3	3
Smith C. Co.	30	44	4	4	44	4	4	4	4	4	4
Piedmont & Potomac C. Co.	40	29	3	3	29	13	13	13	13	13	13
Big Vein C. Co.	28	10	2	2	10	2	2	2	2	2	2
Taylor C. Co.	8	6	2	2	6	3	3	3	3	3	3
Hampshire	47	22	2	2	22	2	2	2	2	2	2
Oakdale	20	22	2	2	22	2	2	2	2	2	2
Abrams Creek C. & C. Co.	20	22	2	2	22	2	2	2	2	2	2
Walwash & Potomac C. Co.	20	22	2	2	22	2	2	2	2	2	2
Totals	480	598	56	56	598	73	73	73	73	73	73
Preston County.											
Anstett C. & C. Co.	45	12	2	2	12	15	15	15	15	15	15
Newburg Shaft	20	50	12	12	50	8	8	8	8	8	8
Gorman No. 1	7	8	1	1	8	1	1	1	1	1	1
Gorman No. 2	15	20	8	12	20	5	5	5	5	5	5
Irona Coal Co.	15	70	16	16	70	12	12	12	12	12	12
Merchants C. Co.	20	180	30	30	180	25	25	25	25	25	25
No. 1	20	180	30	30	180	25	25	25	25	25	25
No. 2 & 3	20	180	30	30	180	25	25	25	25	25	25
Corinth	20	180	30	30	180	25	25	25	25	25	25
Howesville	20	180	30	30	180	25	25	25	25	25	25
Dixie	20	180	30	30	180	25	25	25	25	25	25
Orr C. & C. Co.	20	180	30	30	180	25	25	25	25	25	25
Vulcan	20	180	30	30	180	25	25	25	25	25	25
Victoria No. 1	20	180	30	30	180	25	25	25	25	25	25
Victoria No. 2	20	180	30	30	180	25	25	25	25	25	25
Shrader No. 1	20	180	30	30	180	25	25	25	25	25	25
Atlantic Nos. 1 & 2	20	180	30	30	180	25	25	25	25	25	25
Atlantic C. & C. Co.	20	180	30	30	180	25	25	25	25	25	25
Moontown	20	180	30	30	180	25	25	25	25	25	25
Total	430	467	108	212	1,229	473	73	240	930	127	123

DETAIL OF THE MEN EMPLOYED AT THE MINES AND OVENS FOR THE YEAR ENDING JUNE 30th, 1904.

NAME OF MINE.	NAME OF COMPANY.	Employees.					Outside.			Avg. No. days mines were operated.	Avg. No. ovens operated.	Avg. No. ovens in operation per plant.	No. of mules and horses inside.
		Inside.			Outside.								
		Pick miners.	Machine miners.	Machine runners & helpers.	Laborers.	Total.	Laborers.	Coke workers.	Total.				
<i>Randolph County.</i>													
Coalton	Davis Colliery Co.	125			17	142	15	21	36	215	120	100	7
Grassy Run	"	22			2	24	14		14	55			1
Harding	"	90			10	100	12	20	32	218	230	76	4
Weaver No. 1	Maryland Smokeless C. Co.	75			20	95	18		33	195	190	40	15
No. 2	"	48			13	61	7	20	27	130	130	70	8
No. 3	"	11			2	13	1		1	120			1
Leiter No. 1	"				6	20				180			7
Klondyke	Ritter Coal Co.	15			2	17				100			2
Totals		386	10	4	72	472	67	76	143	184	172	69	45
<i>Taylor County.</i>													
Sandlick	Grafton C. & C. Co.	26			9	35	5		5	140			5
Flemington	Flemington C. & C. Co.	15	25	3	15	58	23		23				6
No. 41	Davis C. & C. Co.	50			28	78	15		15	202			9
Foster	L. B. Brydon	12			2	14	3		3	133			3
Rosemont	Rosemont C. Co.	60			12	72	10		10	220			9
T. B. Davis	Davis-Brydon C. Co.	70			11	81	10		10	194			10
Totals		283	25	3	77	388	66		66	194			42
<i>Tucker County.</i>													
No. 23	Davis C. & C. Co.	211			60	271	26		26	237	263	93	18
Shaft No. 34	"	78			44	122	12	28		250			16
No. 25	"	9	54	12	26	101	10		10	232			8
No. 35	"	27			14	41	4		16	287	218	36	4
No. 36	"	30			34	64	10		35	281	249	109	16
No. 37	"	80			50	130	14	70	84	287	257	174	18
Douglas No. 1	Cumberland C. Co.	30			10	40	5		5	222			4
No. 3	"	40	30		16	56	7		30	222	222	70	10
No. 4	"		25	4	9	43			37	222			3
Beacon	Beacon C. & C. Co.		25	4	21	50	10		10	222			5
Totals		545	109	20	284	958	88	175	263	250	248	99	102

TABLE SHOWING AVERAGE PRICE PAID PICK MINERS PER YEAR AND MONTH FROM 1897 TO 1904, INCLUSIVE.

YEARS.	Average earnings of each pick miner per		Average price per ton of 2,240 lbs. received for pick mining, run-of-mine.
	Year.	Month.	
1897	\$ 275.58	\$ 22.08	\$.35 1-5
1898	316.39	26.36	.38 9-10
1899	307.84	30.65	.3812
1900	451.77	37.65	.4106
1901	459.56	38.29	.44½
1902	533.56	44.46	.47½
1903	499.06	41.59	.49½
1904	484.96	40.41	.49½

WAGES PAID AND SELLING PRICE OF COAL AND COKE, FOR THE YEAR ENDING JUNE 30th, 1904.

DISTRICT.	COUNTY.	Paid Pick Miners Per ton of 2,240 lbs.				Trackmen's daily wages.	Selling Price of	
		Run-of-Mine.		Screen- ed.	Coal (2,240 lbs.)		Coke (2,000 lbs.)	
		Room.	Heading.	Room.				
First	Brooke	\$.63		\$.98	\$ 2.51	\$1.00		
First	Hancock	.56		1.01	2.40	1.11		
First	Harrison	.44	.50	.61	2.25	.98½	2.00	
First	Marion	.44	.49½		2.15	1.03	1.75	
First	Monongalia	.45	.50		2.05	.92½	1.30	
First	Marshall	.64		1.01	2.51	1.06		
First	Ohio	.63½		1.00½	2.51	1.06		
Second	Clay			.73	1.75			
Second	Kanawha	.51	.58	.84	2.22	1.04	1.75	
Second	Lincoln	.50	.55		2.25	.81		
Second	Mason	.61		.78	2.03	1.10		
Second	Putnam	.63		.69	2.05	1.10		
Third	Fayette	} Kan. River Series New River Proper Loup Creek.	.49½	.85	2.15	.98½	1.99	
			.51		2.21	1.11½	2.18	
			.41		2.28	1.11	1.83½	
Third	Nicholas			.81	2.30	.95		
Third	Raleigh	.54			2.22	1.06		
Fourth	Logan	.47½			2.00			
Fourth	McDowell.	{ Poca, No. 3 Poca, Thin Vein	.32	.98	1.92	1.27	1.74	
			.39	.48	2.00	1.01	2.25	
Fourth	Mercer		.36		1.91	1.20	1.79	
Fourth	Mingo		.42		2.07	.95		
Fifth	Barbour		.43	.56	2.07	.94	1.75	
Fifth	Grant.				2.25	1.05		
Fifth	Mineral		.58	.65	2.23	1.28		
Fifth	Preston		.53	.63	2.20	1.07	1.78	
Fifth	Randolph		.53	.60	2.18	1.04	1.37½	
Fifth	Taylor		.39		2.16	.83		
Fifth	Tucker		.46		2.20	1.25	2.19	
	Averages		.49½	.53	.82	2.17	1.05	1.83½

SUMMARY OF THE WAGES PAID MACHINE MINERS, RUNNERS & HELPERS, 1904.

DISTRICT.	COUNTY.	Machine Miners Paid Per				Machine Runners		Machine Helpers	
		Day.	Ton of 2,240 lbs. Run of Mine.		Ton of 2,240 lbs. Screened.	Wages	Paid by	Wages	Paid by
			Room.	Head-ing.					
First.	Brooke.	\$.....			\$.....	\$ 2.75	Day	\$ 2.10	Day
First.	Hancock					.07	Long Ton	.07	Long Ton
						.09	(room.)	.06	Long Ton
First	Harrison		.30	.35		.10%	Long Ton		
							(Head.)		
						3.00	Day	2.37½	Day
First.	Marion		.30	.35		.08	Long Ton		
							(room.)		
						.09	Long Ton		
							(Head.)		
First	Monongalia	2.50	.30	.35		3.00	Day	2.25	Day
						.07%	Long Ton		
						.08½	(room.)		
First	Marshall		.40			.08	Long Ton	.08	Long Ton
Second	Clay		.30		.50	.12	Long Ton	.12	Long Ton
						.07	Long Ton		(screened.)
Second	Kanawha		.20	.33	.43	.24	Day	2.17	Day
						.06	Long Ton	.06	Long Ton
						.12	Long Ton	.12	Long Ton
						.05½	Foot		(screened.)
Second	Putnam				.52	2.22	Day	1.75	Day
						2.23	Day	1.82	Day
						.06	Long Ton	.06	Long Ton
	Kana. R. Series	1.92½	.26		.48	.08	(room.)		(room.)
							Long Ton		
							(Head.)		
Third	Fayette		.35			.05	Foot	1.98	Day
		2.25				2.41	Foot	.01½	Foot
	New River Proper	2.02½	.28			.02	Foot	1.89	Day
	Loup Creek					2.44	Day	.10	Long Ton

Third.....	Nicholas.....	.31	.38	.....	.....	2.28%	Day	1.77%	Day
Fourth.....	McDowell... { Poca. No. 3.	.25	.....	.....	.....	2.45%	Day	1.72%	Day
Fourth.....	McDowell... { Poca. Thin Vein.	.33	.....	.....	.....	2.75%	Day	1.57%	Day
Fourth.....	Mercer.....	.22	.30	.....	.....	.25	Hour	1.17%	Hour
Fourth.....	Mingo.....	.23	.....	.....	.....	2.37%	Day	1.73%	Day
Fifth.....	Barbour.....	.26	.35	.56	.....	2.43%	Day	1.83%	Day
Fifth.....	Grant.....	.32	.....	.....	.....	2.42%	Day	2.17%	Day
Fifth.....	Preston.....	.32	.40	.....	.....	.06	Long Ton	.08	Long Ton
Fifth.....	Randolph.....	.39	.....	.....	.....	.09%	Long Ton	2.31	Day
Fifth.....	Taylor.....	.25	.....	.....	.....	2.50%	Long Ton	0.6%	Long Ton
Fifth.....	Tucker.....	.36	.....	.....	.....	.09	Day	.20	Hour
			.....	.....	.....	2.10	Hour	.06	Long Ton
			.....	.....	.....	.14	Long Ton	1.80	Day
			.....	.....	.....	.07%	Long Ton		
	Averages.....	.30	.35	.51	.53	2.43%	Day	1.97%	Day
						.07%	R. O. M. Long Ton	.07	R. O. M. Long Ton
						.09	(room.) R. O. M. Long Ton	.12	Screened Long Ton
						.12	(Head.) Screened Long Ton	.01%	Foot
						.04	Long Ton	.18%	Hour
						.19%	Foot Hour		

**STATEMENT OF THE TONNAGE OF COAL AND COKE FROM THE COLLIERIES IN WEST VIRGINIA,
HANDLED AND TRANSPORTED BY THE RAILROADS IN THE STATE DURING THE TWELVE
MONTHS ENDING JUNE 30th, 1904.**

(Quantities are expressed in tons of 2,000 lbs.)

NAME OF RAILROAD COMPANY.	Total tons handled.		Tons originating on the line.		Tons delivered to the line by other railroads in West Virginia.		Tons delivered by the line in the State.		Railroads and docks to which product is deliv- ered for distri- bution.	Points of destination of the product.	
	Coal.	Coke.	Coal.	Coke.	Coal.	Coke.	Coal.	Coke.		East.	West.
Baltimore & Ohio	7,988,955	425,439	6,288,242	127,395	1,700,713	298,044	No data	No data	Locust Point, Cleveland and Sandusky.	Philadelphia, Baltimore and Atlantic coast.	Chicago, Lake Points and Northwest.
West Virgin- ia Central & Pittsburg ..	1,809,833	277,583	1,781,556	276,751	28,277	832	91,320	79	Baltimore & Ohio and Penn. R. Rs.	Port Richmond, Curtis Bay, and Greenwich, and South Amboy Piers.	Chicago, St. Louis and other points.
Kanawha & Michigan ...	1,508,861	85,300	1,339,764	80,707	169,097	4,653	No data	No data	T. & O. C. and H. V. Docks.		Ohio cities, Chi- cago, Milwan- kee and Lake Points.
Norfolk & Western ...	6,749,131	1,353,533	6,733,234	1,353,112	15,897	421	387	No data	Lambert Point Piers, Toledo and Sandusky Docks S. A. L., So. Inland—Va., N. R., & O. C. L.	Tidewater, For- eign ports and Atlantic coast. Inland—Va., N. C. and S. C.	Cincinnati, Lake points, Chicago and western cities.
Chesapeake & Ohio	5,976,644	325,453	5,805,112	325,303	171,532	150	396,062	250	C. & O. Docks at Newport News and various rail- roads.	Coastwise, Ex- port, New York and New Eng- land.	Cincinnati, Chi- cago, Louisville, Toledo, St. Lou- is, etc.
Totals	24,633,424	2,467,368	21,947,908	2,163,298	2,065,516	304,100	79,287	92,679	487,382	335	

*NUMBER OF KEGS OF POWDER USED AT THE MINES, BY
COUNTIES, FOR 1904.*

DISTRICT.	COUNTY.	No of opera- tions re- porting.	Tons of coal (tons of 2,240 lbs).	Kegs of powder used.	Tons per keg used.	Cost per keg to miner.
First	Brooke	1	8,089	300	27	8 1.70
First	Hancock	3	63,000	1,360	46	1.62
First	Harrison	26	2,216,405	28,478	78	1.69
First	Marion	19	2,424,589	30,607	79	1.70
First	Monongalia	3	100,612	2,001	80	1.73
First	Marshall	2	193,828	1,980	98	1.65
First	Ohio	3	47,460	516	92	1.58
Second	Clay	1	2,860	85	82	1.75
Second	Kanawha	75	2,123,773	36,456	58	1.74
Second	Lincoln	2	81,744	2,028	15	1.75
Second	Mason	7	85,223	1,810	47	1.75
Second	Putnam	5	239,642	10,150	23	1.75
Third	Fayette	78	3,936,971	54,867	71	2.04
Third	Nicholas	4	25,455	1,105	23	1.75
Third	Raleigh	6	272,568	2,827	96	2.07
Fourth	McDowell	48	4,396,511	65,586	67	1.93
Fourth	Mercer	15	1,258,499	27,948	45	2.00
Fourth	Mingo	25	1,118,259	22,638	27	1.81
Fifth	Barbour	9	623,734	9,770	64	1.65
Fifth	Grant	1	14,375	300	44	1.45
Fifth	Mineral	5	105,855	880	120	1.71
Fifth	Preston	12	456,455	5,873	85	1.52
Fifth	Randolph	8	356,531	5,205	68	1.66
Fifth	Taylor	5	223,765	2,791	80	1.59
Fifth	Tucker	8	946,678	12,294	77	1.81
Totals		381	21,332,828	327,305	65	1.74

STEAM BOILERS AT MINES, 1904.

DISTRICT.	COUNTY.	No. of mines having boilers.	No. of boilers insured.	No. of boilers not insured.	Total No. of boilers.
First	Brooke	1	1	1	1
First	Hancock	2	1	1	2
First	Harrison	31	16	43	59
First	Marion	21	17	54	71
First	Monongalia	3	3	1	4
First	Marshall	4	13	1	14
First	Ohio	2	1	2	3
Second	Clay	1	1	1	1
Second	Kanawha	50	51	36	87
Second	Mason	2	6	4	4
Second	Putnam	3	6	8	14
Third	Fayette	67	141	37	178
Third	Nicholas	5	3	3	3
Third	Raleigh	5	6	6	12
Fourth	Logan	1	1	1	1
Fourth	McDowell	20	107	17	124
Fourth	Mercer	13	38	9	47
Fourth	Mingo	9	14	6	20
Fifth	Barbour	7	16	1	17
Fifth	Grant	1	6	1	6
Fifth	Mineral	5	3	3	6
Fifth	Preston	13	26	3	26
Fifth	Randolph	5	13	1	13
Fifth	Taylor	3	4	1	4
Fifth	Tucker	6	14	1	15
Totals		295	497	235	732

**SUMMARY OF THE NUMBER OF MINE LOCOMOTIVES IN
THE STATE—1904.**

DISTRICT.	COUNTY.	No. of Mines using Lo- comotives.	Locomotives.			
			Steam.	Electric.	Comp. Air.	Sum Total.
First	Harrison	7	1	7		8
First	Marion	6		12		12
First	Monongalia	1		1		1
First	Marshall	3		5		5
Second	Kanawha	34	3	42		45
Second	Putnam	3		6		6
Third	Fayette	40	17	56	1	74
Third	Nicholas	2	1	1		2
Third	Raleigh	6	2	6		8
Fourth	McDowell	32	30	27	4	61
Fourth	Mercer	11	17	9		26
Fourth	Mingo	6	2	7	1	10
Fifth	Barbour	3		6		6
Fifth	Grant	1		1		1
Fifth	Mineral	1	1			1
Fifth	Preston	2		3		3
Fifth	Randolph	2		2		2
Fifth	Taylor	1		3		3
Fifth	Tucker	7	3	12		15
Totals		188	77	206	6	298

NUMBER AND KINDS OF LOCOMOTIVES IN USE AT THE MINES - 1904.

NAME OF COMPANY.	NAME OF MINE.	Locomotives.		
		Steam.	Electric.	Comp. Air.
<i>Harrison County.</i>				
Clarksburg Fuel Co.	Two Lick		1	
Fairmont Coal Co.	Viropa		1	
	Gypsy		1	
Pittsburg & Fairmont Fuel Co.	Perry Nos. 1 & 2.		1	
Cook C. & C. Co.	Girard No. 1.		1	
Chieftain C. Co.	Chieftain Nos. 1 & 2.		2	
Pitcairn C. Co.	Pitcairn	1		
Totals		1	7	
<i>Marion County.</i>				
Fairmont Coal Co.	Montana		1	
" " "	New England		4	
" " "	Gaston		1	
" " "	Monongah Nos. 2 & 5.		2	
" " "	" No. 3.		2	
" " "	" No. 6.		2	
Totals			12	
<i>Monongalia County.</i>				
Fairmont Coal Co.	Beechwood		1	
Totals			1	
<i>Marshall County.</i>				
Hitchman C. & C. Co.	Hitchman		1	
Wheeling Steel & Iron Co.	Benwood		2	
Glendale C. Co.	Glendale		2	
Totals			5	
<i>Kanawha County.</i>				
The Elk Coal Co.	Turner		1	
Black Hawk C. Co.	Black Hawk	1		
Campbells Creek C. Co.	No. 1.		2	
New Diamond C. Co.	Black Diamond	1		
Kanawha & Hocking C. & C. Co.	K. & H. No. 103.		1	
" " " " "	K. & H. No. 104.		1	
" " " " "	K. & H. No. 106.		1	
" " " " "	K. & H. No. 109.		1	
Cannelton C. Co.	Cannelton No. 2.		1	
The Marmet Co.	Lens Creek		1	
" " " " "	Butler		2	
" " " " "	Monarch		2	
Winifrede C. Co.	North		1	
" " " " "	West		1	
Coalburg Colliery Co.	Ronda		1	
Stevens C. Co.	Acme		1	
" " " " "	Keystone		2	
" " " " "	Empire		1	
Belleclare C. Co.	Belleclare & Ruby		1	
Cardiff Coal Co.	Oakley		1	
" " " " "	Climax		1	
M. T. Davis C. Co.	Davis No. 1.		1	
Carbon C. Co.	South & North		2	
Raccoon Fork C. Co.	Raccoon		2	
United Colliery Co.	United		1	
Cabin Creek M. Co.	Cabin Cr. Nos. 1 & 2.		2	
Belmont Coal Co.	Coalburg & Lewiston		2	
Equitable Coal Co.	Kanawha & Coalburg		2	
Scranton Splint C. Co.	Scranton		1	
Paint Creek C. Co.	Paint Creek		1	
Chesapeake M. Co.	Chesapeake	1	1	
Montgomery C. Co.	Kanawha		1	
Kanawha & Coal River C. Co.	Bl'k Band No. 1.		2	
Morris Creek C. Co.	Morris Cr. No. 1.		1	
Totals		3	42	

**NUMBER AND KINDS OF LOCOMOTIVES IN USE AT THE
MINES, 1904.—Continued.**

		Locomotives.		
NAME OF COMPANY.	NAME OF MINE	Steam.	Electric.	Comp. Air.
<i>Putnam County.</i>				
Plymouth C. & M. Co.	Plymouth.		3	
The Otto-Marmet C. & M. Co.	Pocatalico		1	
Black Betsey C. & M. Co.	Black Betsey.		2	
Totals			6	
<i>Fayette County.</i>				
Kanawha & Hocking C. & C. Co.	K. & H. No. 111.		1	
	K. & H. No. 112.		1	
	K. & H. No. 114.		1	
	K. & H. No. 115.		1	
	K. & H. No. 117.		1	
Columbus Iron & Steel Co.	No. 1.		2	
Kanawha Gas C. Co.	Kanawha Gas		1	
Boomer C. & C. Co.	Boomer No. 1.		1	
	No. 2.		1	
	No. 3.		1	
Gordon C. & C. Co.	Eureka No. 2.		1	
	St. Clair No. 2.		1	
Mecca C. & C. Co.	No. 2.		2	
W. R. Johnson.	No. 5 Splint.	1		
Carver Bros. Co.	Eagle, California, Nos 1, 2 & 3		4	
The Mt. Carbon Co. Ltd.	Vulcan			1
	Excelsior		2	
The Great Kanawha Coll. Co. Ltd.	No. 1 or Brewster		2	
Cardiff Coal Co.	Kimberly Nos. 1 & 2.		1	
The Gauley Mountain C. Co.	Gauley Mt. Nos. 1 & 2.	4		
Isabel C. & C. Co.	Elmo		1	
The Low Moor Iron Co.	Kay Moor No. 1.		2	
The New River Smokeless C. Co.	Red Ash.		2	
	Rush Run		3	
	Sun No. 1.		4	
	Sun No. 2.		2	
Fire Creek C. & C. Co.	Fire Creek.	1		
The Thurmond C. Co.	Thurmond		2	
The Beechwood C. & C. Co.	Beechwood No. 2.	1		
Alaska C. & C. Co.	Alaska	1		
Ephraim Creek C. & C. Co.	Buffalo & Slater		4	
Harvey C. & C. Co.	Harvey Nos. 1 & 2.	1		
Prudence C. Co.	Prudence		2	
Collins Colliery Co.	Collins Nos. 1 & 2.		5	
Whipple Colliery Co.	Whipple		2	
The White Oak Fuel Co.	Scarbro No. 1.		1	
Quinnimont C. Co.	Big Q.	1		
Greenwood C. & C. Co.	Greenwood	2		
Hemlock Hollow C. & C. Co.	Hemlock Hollow.	1		
W. P. Rend.	Nos. 1, 2, 3, 4 & 5	4	3	
Totals		17	56	1
<i>Nicholas County.</i>				
Bell Creek C. Co.	Bell Creek	1		
The Cambria M. Co.	Cambria		1	
Totals		1	1	
<i>Raleigh County.</i>				
The New River Smokeless C. Co.	Royal		1	
	Lanark Nos. 1 & 2.	1		
Raleigh C. & C. Co.	Nos. 1, 2, 3 & 4.		3	
The Wright C. & C. Co.	Wright No. 1.		1	
Piney Colliery	Piney No. 1.		1	
Stonewall C. & C. Co.	Nos. 2 & 3.	1		
Totals		2	6	
<i>McDowell County.</i>				
The Tidewater C. & C. Co.	Tidewater		1	
Bottom Creek C. & C. Co.	Bottom Creek		1	

**NUMBER AND KINDS OF LOCOMOTIVES IN USE AT THE
MINES, 1904.—Continued.**

NAME OF COMPANY.	NAME OF MINE.	Locomotives.		
		Steam.	Electric.	Comp. Air.
McDowell County.—Continued.				
Peerless C. & O. Co.	Peerless	2		
The Empire C. & C. Co.	Empire		1	
Shawnee C. & C. Co.	Shawnee		1	
Eureka C. & C. Co.	Eureka	2		
Pulaski Iron Co.	Pulaski	1	1	
Keystone C. & C. Co.	Keystone Nos. 1 & 2	3		
Algoma C. & C. Co.	Algoma	1	1	1
Gilliam C. & C. Co.	Gilliam		2	
Rolfe C. & C. Co.	Rolfe		1	
Roanoke C. & C. Co.	Roanoke	1		
Indian Ridge C. & C. Co.	Indian Ridge		1	
Arlington C. & C. Co.	Arlington		1	
Greenbrier C. & C. Co.	Greenbrier		2	
McDowell C. & C. Co.	McDowell	3		
Ashland C. & C. Co.	Ashland Nos. 1 & 2	3		
Cherokee Colliery Co.	Cherokee	1		
Elk Ridge C. & C. Co.	Elk Ridge	2		
Lynchburg C. & C. Co.	Lynchburg	2		
Powhatan C. & C. Co.	Powhatan	2		
Upland C. & C. Co.	Upland Nos. 1 & 2		1	
Houston C. & C. Co.	Houston Nos. 1 & 2	2		
Crozer C. & C. Co.	Crozer Nos. 1 & 2		3	
Turkey Gap C. & C. Co.	Turkey Gap	3		
Norfolk C. & C. Co.	Norfolk & Angle		4	
Shamokin C. & C. Co.	Shamokin	1	1	
Elkhorn C. & C. Co.	Elkhorn	1		
Tug River C. & C. Co.	Tug River		1	
United States C. & O. Co.	No. 1		1	
	No. 2		1	
	No. 3		1	
Totals		30	17	4
Mercer County.				
Mill Creek C. & C. Co.	Mill Creek	5		
	Coaldale		3	
Buckeye C. & C. Co.	Buckeye	2		
Caswell Creek C. & C. Co.	Caswell	4		
Booth-Bowen C. & C. Co.	Booth-Bowen	3		
Louisville C. & C. Co.	Nos. 1, 2 & 3		12	
The Goodwill C. & C. Co.	Goodwill	2		
Crane Creek C. & C. Co.	Crane Creek Nos. 1 & 2		1	
Sagamore C. & C. Co.	Sagamore		12	
Crystal C. & C. Co.	Crystal		1	
Piedmont Colliery.	No. 1	1		
Totals		17	9	
Mingo County.				
Red Jacket C. & C. Co.	Rutherford		1	
	Maritime		1	
	Red Jacket		3	
Thacker C. & C. Co.	Nos. 1, 2 & 3	2		
Glen Alum C. Co.	Glen Alum Nos. 1 & 2		2	
War Eagle C. Co.	War Eagle			1
Totals		2	7	1
Barbour County.				
Philippi C. M. Co.	Nos. 1, 2, 3 & 4		2	
Southern Coal & Transportation Co.	Berryburg		2	
The Century C. Co.	Century No. 1		2	
Totals			6	
Grant County.				
Davis C. & C. Co.	No. 22		1	
Totals			1	

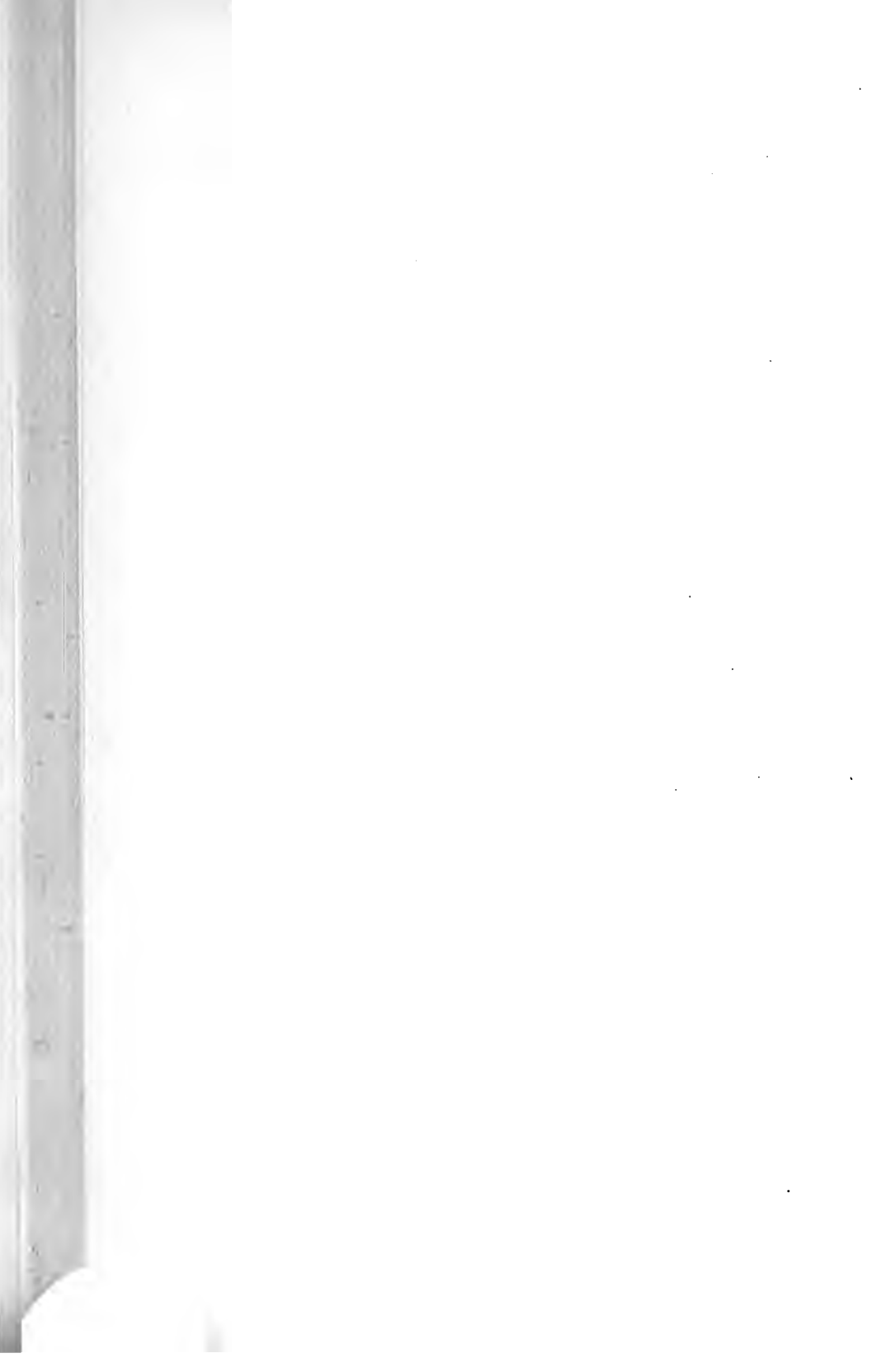
**NUMBER AND KINDS OF LOCOMOTIVES IN USE AT THE
MINES—1904.**

NAME OF COMPANY.	NAME OF MINE.	Locomotives.		
		Steam.	Electric.	Comp. A. R.
<i>Mineral County.</i>				
Big Vein C. Co.....	Big Vein.....	1		
Totals.....		1		
<i>Preston County.</i>				
Merchants C. Co.....	Nos. 2 & 3.....		2	
Atlantic C. & C. Co.....	Atlantic Nos. 1 & 2.....		1	
Totals.....			3	
<i>Randolph County.</i>				
Davis Colliery Co.....	Coalton.....		1	
" " " ".....	Harding.....		1	
Totals.....			2	
<i>Taylor County.</i>				
Flemington C. & C. Co.....	Flemington.....		3	
Totals.....			3	
<i>Tucker County.</i>				
Davis C. & C. Co.....	No. 23.....		4	
" " " ".....	No. 34.....		2	
" " " ".....	No. 35.....		1	
" " " ".....	No. 36.....		1	
" " " ".....	No. 37.....		4	
Cumberland C. Co.....	Douglas No. 1.....	1		
" " " ".....	No. 3.....	2		
Totals.....		3	12	

TABLE GIVING THE NUMBER OF MINE OPENINGS; NUMBER OF COKE OVENS; ACRES OF COAL WORKED OUT; NUMBER OF MULES AND HORSES USED AT MINES; NUMBER OF MEN KILLED AND INJURED AND KINDS OF VENTILATION FOR THE YEAR ENDING JUNE 30th, 1904.

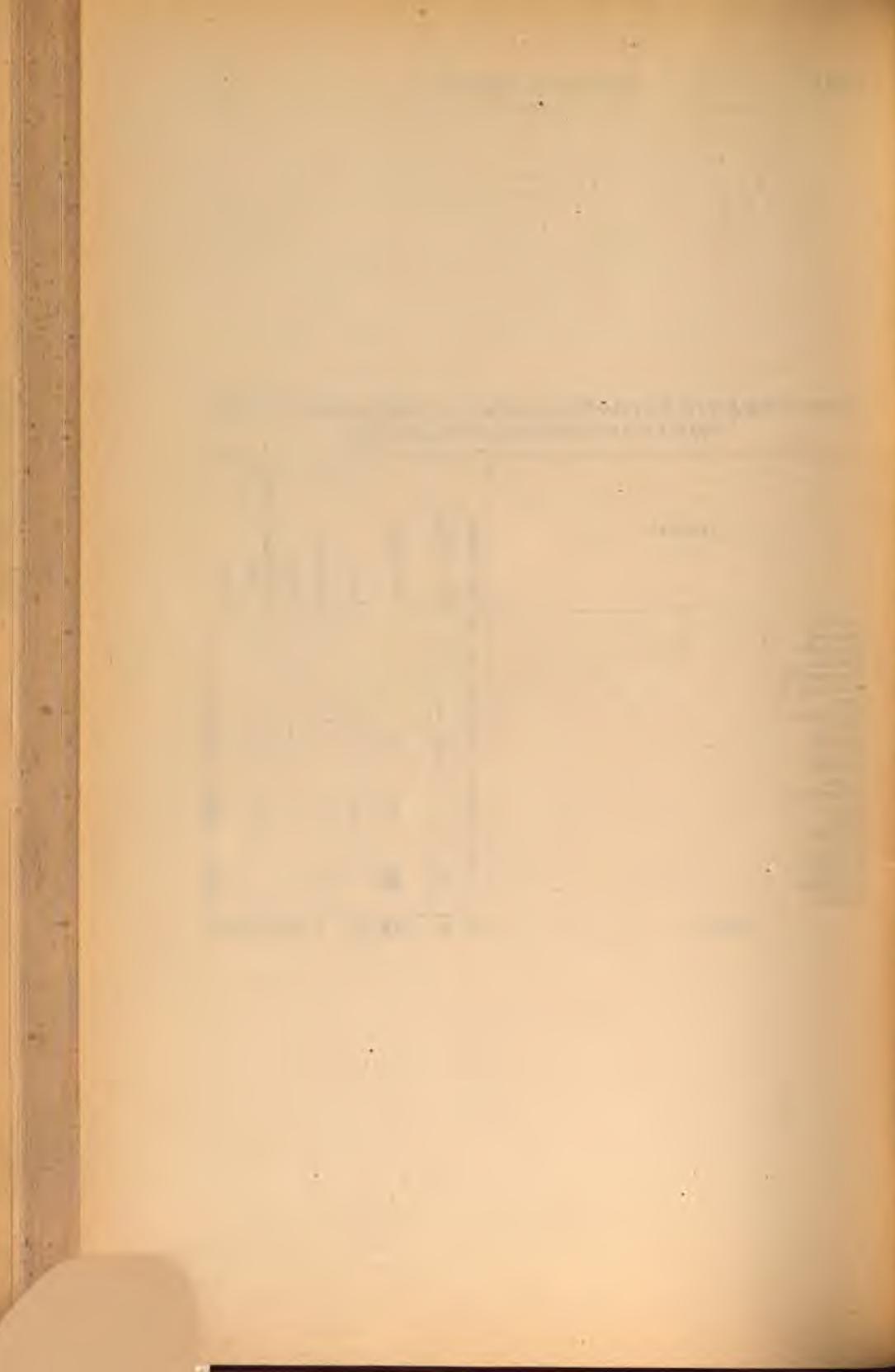
DISTRICT.	COUNTY.	No. of Mine Openings.	Total No. of Coke Ovens.	Acres of Coal worked out from Commercial Mines.	No. of Men Killed.	No. of Men Injured Non-fatally.	No. of Mules and Horses used at Mines.	No. of Fans.	No. of Furnaces.	No. of Natural Ventilation.	Fire Baskets, Air Shafts, Pines, etc.
First.	Brooke.	8		7.28	1	1	25	1	5		1
First.	Hancock.	4		12.48	5	22	316	38	3	2	
First.	Harrison.	45	232	239.55	16	44	341	23	3	1	
First.	Marion.	25	1,043	339.96	16	1	30	1	3		
First.	Monongalia.	5	141	27.90	2		41	1			
First.	Marshall.	8		10.68			4	8			
First.	Ohio.	7		16.53			26		4		
Second.	Ohio.	6		16.53	1	2	4		4		
Second.	Kanawha.	121	96	476.01	8	27	676	54	25	17	
Second.	Lincoln.	2		9.87			22				
Second.	Wason.	9		15.77			34	2	2		
Second.	Putnam.	8		15.06	3	6	30	4	2		
Third.	Wayette.	133	3,044	1,013.11	32	85	1,386	73	21	28	
Third.	Nicholas.	7		8.24		1	11				
Third.	Raleigh.	20	80	82.46	5	5	127	5	2	4	
Fourth.	Logan.	4					1				
Fourth.	McDowell.	76	7,391	749.00	25	25	730	51	22	1	
Fourth.	Mercer.	25	1,886	188.24	6	14	166	20	1	2	
Fourth.	Mingo.	32		173.43	5	17	247	8	23	2	
Fifth.	Barbour.	13	51	73.98	3		76	3	3	1	
Fifth.	Grant.	4		16.18	4	2	13	2	1		
Fifth.	Mineral.	14		55.83	7	2	71	12	3	6	
Fifth.	Preston.	20	616	125.96		4	123	12	2		
Fifth.	Randolph.	8	520	40.51		2	45	5	2	3	
Fifth.	Taylor.	6		23.82		1	42				
Fifth.	Tucker.	11	709	162.40	9		102	7	3		
	Totals.	629	15,857	3,967.86	140	211	4,760	325	172	73	19

IMPROVEMENTS.

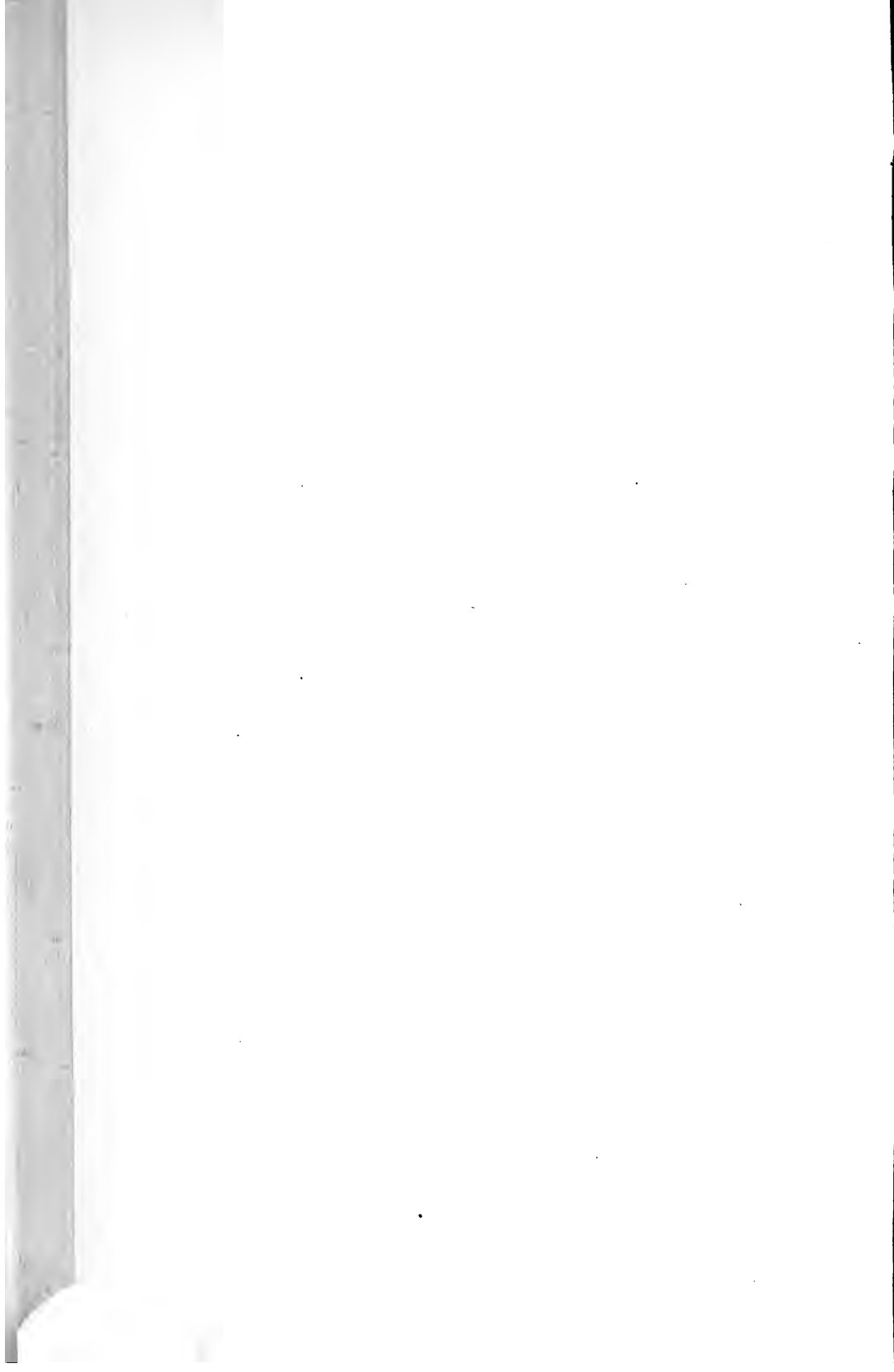


*IMPROVEMENTS REPORTED MADE AT THE MINES DURING
THE YEAR ENDING JUNE 30th, 1904.*

COUNTY.	New Plants.	Power Plants.	Coke Ovens.	Fans.	Furnaces.	Tipples.	Additional open-ings.	Totals.
Brooke.....	2			1				3
Hancock.....	2	1			1	3	1	11
Harrison.....	1			1	1		3	5
Marion.....	1				1	2	1	5
Monongalia.....	1			1		1		3
Marshall.....	1							1
Clay.....	3	1						4
Kanawha.....	14	5		2	1	7	7	30
Putnam.....	1					1		2
Fayette.....	6	3	118	5	1	11	3	147
Nicholas.....	1	1		1				3
Raleigh.....	1	3					1	5
Logan.....	5							5
McDowell.....	2	7	448	2		3	5	467
Mercer.....	6	4	477	2		3	1	493
Mingo.....	6			1	1		2	10
Barbour.....							2	2
Grant.....	1							1
Mineral.....	2			1			1	4
Preston.....	1	2	257			1		261
Randolph.....	1	2	200			1		203
Tucker.....	1						1	2
Totals.....	55	29	1,500	17	5	33	28	1,607



STRIKES.



SUMMARY OF THE STRIKES AT COAL MINES IN WEST VIRGINIA FOR THE YEAR ENDING JUNE 30, 1904.

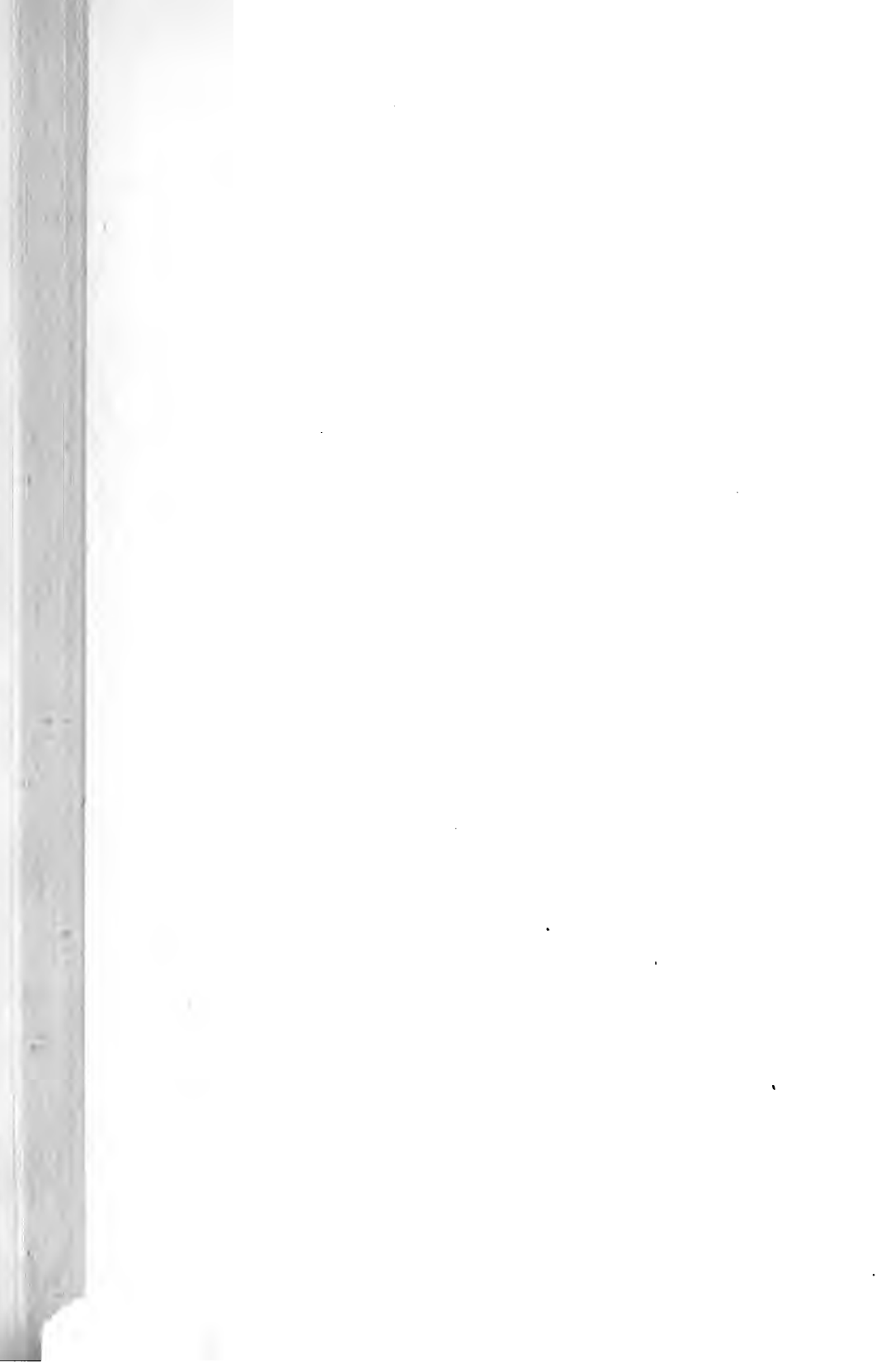
DISTRICT.	COUNTY.	Total No. of mines reporting strikes or lockouts.	Total No. of employees thrown out of employment by strikes or lockouts.	No. of companies reporting in full.	No. of companies reporting loss to employees.	Total loss to employees reported.	No. of companies reporting loss to operators.	Total loss to operators reported.
First	Hancock	2	155					
First	Marshall	4	448	1			1	\$ 10,000.00
First	Ohio	3	180		30,000.00	5,500.00	1	
Second	Kanawha	14	991	8	23,192.00	200.00	3	11,110.00
Second	Lincoln	1	30	1			1	300.00
Second	Mason	3	249					
Third	Fayette	3	262					
Third	Nicholas	1	33	1	1,800.00		1	1,800.00
Fifth	Mineral	3	297	2	65,340.00			
Fifth	Preston	5	281					
Totals. . .		42	2,926	11	17	\$ 126,032.00	11	\$ 23,210.00

STRIKES AT THE COAL MINES IN WEST VIRGINIA FOR THE YEAR ENDING JUNE 30th 1904.

COUNTY.	NAME OF MINE.	Total employees before strike or lock out.	Total employees or strikers locked out.	Total employees for whom strike was undertaken.	Total employees thrown out of employ't by B. or L. O.	Date of		Were works closed in consequence	Length of time closed. (Working days.)	Cause or object of strike.	How was strike settled.	Loss to employees.	Loss to operators.
						Beginning.	Termination						
Hancock	Marquet No. 1	138	...	138	138	Apr. 28, 1904	May 16, 1904	Yes	14	Higher wages	Employing entire new force	\$	96
"	Marquet No. 2	19	...	19	19	Apr. 28, 1904	May 26, 1904	Yes	22	"	Employing entire new force		
Marshall	Glendale	108	...	108	108	Apr. 15, 1904	July 1, 1904	Yes	63	To reinstate men and agree on scale for year.			
"	Hitchman	200	...	150	200	Apr. 20, 1904	June 15, 1904	Yes	47	Miners demanded run-of-mines basis	On Company's terms	25,000	10,000
"	Boggs Run	60	...	60	60	May 1, 1904	June 11, 1904	Yes	35	Inability to agree on rules	Compromised		
"	Moundsville	80	...	80	80	May 1, 1904	June 6, 1904	Yes	31	Adjustment of scale differences	Scale signed after adjustment	5,000	
Ohio	Elm Grove	80	...	80	80	May 1, 1904	May 15, 1904	Yes	12	Adoption of a district scale of wages	Agreed to pay scale prices after adoption		
"	Richland	60	...	60	60	May 1, 1904	June 6, 1904	Yes	30	Adjustment of wage scale	Scale signed after adjustment	3,000	
Kenawha	McKinley	40	...	40	40	May 1, 1904	June 6, 1904	Yes	30	Signing scale of wages	Scale adjusted and signed	2,500	
"	Cherokee	125	...	125	125	Apr. 1, 1904	Apr. 7, 1904	Yes	5	No agreement reached in joint convention	By contract being effected	1,000	
"	Thistle	41	...	41	41	Apr. 1, 1904	Apr. 8, 1904	Yes	6	Wage scale	Agreement	800	1,000
"	Carbon South & North	150	...	75	130	Apr. 1, 1904	Apr. 15, 1904	Yes	13	To take differential off on Cabin Creek	Compromised	2,500	275
"	Republic West	39	...	24	39	Apr. 1, 1904	Apr. 15, 1904	Yes	13	To take differential off on Cabin Creek	"	1,002	175
"	Raccoon	112	...	112	112	Apr. 1, 1904	Apr. 8, 1904	Yes	6	Adjustment of wage scale	Agreement on wage scale	1,500	2,500
"	United Gas	50	...	50	50	Apr. 1, 1904	Apr. 15, 1904	Yes	13	Ordered by U. M. W. of A.	"	3,000	5,000
"	Cabin Cr. Nos 1 & 2	177	...	150	177	Apr. 1, 1904	Apr. 8, 1904	Yes	6	Adjustment of wage scale	"		

Scranton.....	90	90	Apr. 1, 1904	Apr. 27, 1904	Yes	23	Misunderstanding of new wage scale.	Men went to work pending adjustment.	4,000	1,000
Paint Creek.....	88	88	April 1, 1904	Apr. 27, 1904	Yes	23	Misunderstanding of new wage scale.	Men went to work pending adjustment.	4,000	1,000
Coalburg & Lewiston.....	121	100	May 21, 1904		Yes		Miners want run-of-mine basis.	Still on.		
Sycamore.....	18	3	May 30, 1904	June 11, 1904	Yes	10	To compel payment of May work June 1st.	Miners resumed work unconditionally.	5,300	100
Rochester.....	30	1	Aug. 29, 1903	Sept. 7, 1903	Yes	8	To reinstate driver discharged by General Manager.	Board of Directors discharging General Manager and reinstating driver.	200	300
Lincoln.....								Not yet settled.		
Mason.....	26	26	April 1, 1904		Yes		Against Indianapolis agreement.	Put in new men.		
New Castle.....	100	60	Apr. 15, 1904	May 15, 1904	Yes	21	To get rid of union miners.	Not yet settled.		
McDaniel.....	40	40	Apr. 15, 1904		Yes		Against Indianapolis agreement.	Not yet settled.		
Jackson.....	26	26	Apr. 15, 1904		Yes		Against Indianapolis agreement.	" " "		
Klondike.....	32	32	May 4, 1904		Yes		Against Indianapolis agreement.	" " "		
Beech Grove.....	25	24	May 4, 1904		Yes		Against Indianapolis agreement.	" " "		
Fayette.....	188	188	April 1, 1904	Apr. 13, 1904	Yes	11	Work suspended pending adjustment of wage scale.	Adoption of scale.		
Vulcan.....	20	20	April 1, 1904	Apr. 13, 1904	Yes	11	Work suspended pending adjustment of wage scale.	" " "		
South.....	54	54	April 1, 1904	Apr. 14, 1904	Yes	12	Work suspended pending adjustment of wage scale.	" " "		
Excelsior.....	33	4	Feb. 3, 1904	Mar. 3, 1904	Yes	25	Miners failed to keep union agreement.	" " "		
Nicholas.....	35	35	Aug. 24, 1903	Oct. 6, 1903	Yes	36	Recognition of union.	New men employed.	1,800	1,800
Mineral.....	263	237	Aug. 24, 1903	Oct. 6, 1903	No			Miners surrendered.	5,300	
Oakdale.....	25	25	Apr. 1, 1904		Yes		Account of rate.	Starved out.	60,000	
Hovessville.....	94	50	Dec. 16, 1903	Feb. 10, 1904	Yes	47	Recognition of union.	Men went back to work.		
Preston.....	95	75	Jan. 1, 1904		P'y		Account reduction in wages.	Gradually filled with non-union men.		
Austen No. 1.....	74	60	Jan. 1, 1904		P'y		Account reduction in wages.	Gradually filled with non-union men.		
Austen No. 2.....	100	100	Jan. 22, 1904		Yes	24	Men wanted semi-monthly pay.	No settlement.		
Vulcan.....	18	18	June 2, 1904		No		Reduction in wages.	Continuing work.		
Shrader No. 1.....	55									

338612



DIRECTORY OF THE MINES.

DIRECTORY OF THE MINES IN THE STATE OF WEST VIRGINIA FOR THE YEAR ENDING

JUNE 30th, 1904.

FIRST DISTRICT, I. M. KELLY, INSPECTOR.

No.	COUNTY.	Name of Mine.	Kind of opening.	Name of Company.	Postoffice Address.
1	Brooke	Blanche (abandoned).	drift	Panhandle Coal Co.	Colliers
2	"	Wiota.	drift	Wiota Coal Co.	Lazeaville
3	"	The Lewis Mines.	drift	La Belle Coal Co.	Wellsburg
4	"	Bowman.	drift	La Belle Coal Co.	Wellsburg
5	"	No. 1.	drift	Beech Bottom Coal Co.	Wellsburg
6	"	Locust Grove.	drift	Lewis-Pindley Coal Co.	Colliers
7	"	*Wellsburg (suspend).	drift	Wellsburg Coal Co.	Wellsburg
8	"	La Belle.	shaft	La Belle Iron Works	Steenbenville, O.
9	Hancock	Porter No. 1.	drift	M. M. Cullen.	New Cumberland
10	"	Marquet No. 1.	drift	Marquet Coal Co.	New Cumberland
11	"	Marquet No. 2.	drift	Marquet Coal Co.	New Cumberland
12	"	Brenneman.	drift	Congo Coal Co.	New Cumberland
13	Harrison	Pinnickinnick.	slope	Clarksburg Fuel Co.	Fairmont
14	"	Fall Run.	drift	Clarksburg Fuel Co.	Fairmont
15	"	Dixie.	drift	Clarksburg Fuel Co.	Fairmont
16	"	Two Lick.	drift	Clarksburg Fuel Co.	Fairmont
17	"	Interstate.	drift	Clarksburg Fuel Co.	Fairmont
18	"	O'Neil No. 1.	drift	Clarksburg Fuel Co.	Fairmont
19	"	O'Neil No. 2.	drift	Clarksburg Fuel Co.	Fairmont
20	"	Enterprise.	slope	Fairmont Coal Co.	Fairmont
21	"	Viropa.	drift	Fairmont Coal Co.	Fairmont
22	"	Ehlen.	drift	Fairmont Coal Co.	Fairmont
23	"	Solon.	drift	Fairmont Coal Co.	Fairmont
24	"	Gypsy.	drift	Fairmont Coal Co.	Fairmont
25	"	Harbert.	drift	Fairmont Coal Co.	Fairmont
26	"	Maulsby.	drift	Fairmont Coal Co.	Fairmont
27	"	Meadowbrook.	drift	Fairmont Coal Co.	Fairmont
28	"	Farnum.	drift	Fairmont Coal Co.	Fairmont
29	"	Glen Falls.	drift	Fairmont Coal Co.	Fairmont
30	"	Dunham.	drift	Fairmont Coal Co.	Fairmont
31	"	Lynch.	drift	Fairmont Coal Co.	Fairmont
32	"	Reynoldsville.	drift	Fairmont Coal Co.	Fairmont
33	"	Columbia.	drift	Fairmont Coal Co.	Fairmont
34	"	Ocean.	drift	Fairmont Coal Co.	Fairmont
35	"	Riverdale.	drift	Fairmont Coal Co.	Fairmont
36	"	Perry No. 1.	drift	Pittsburg & Fairmont Fuel Co.	Fairmont
37	"	Perry No. 2.	drift	Pittsburg & Fairmont Fuel Co.	Fairmont
38	"	Perry No. 3.	drift	Pittsburg & Fairmont Fuel Co.	Fairmont
39	"	Pooz.	drift	Pittsburg & Fairmont Fuel Co.	Fairmont
40	"	Lucas.	drift	Pittsburg & Fairmont Fuel Co.	Fairmont
41	"	Fairmore.	drift	Fairmont & Baltimore C. & C. Co.	Adamston
42	"	Girard No. 1.	drift	Cook Coal & Coke Co.	Meadowbrook
43	"	Erie.	drift	Meadow Brook C. & C. Co.	Fairmont
44	"	Waldo.	drift	Medeira-Hill-Clark C. Co.	Wilsonburg
45	"	Cork.	drift	Cook & Hart Coal Co.	Fairmont
46	"	Rosebud.	drift	Rose Bud Coal Co.	Rosebud
47	"	Byron No. 1.	drift	Hutchinson Fuel Co.	Fairmont
48	"	Byron No. 2.	drift	Hutchinson Fuel Co.	Fairmont
49	"	Phoenix (suspended).	slope	The Phoenix C. M. & C. Co.	Clarksburg
50	"	O'Gara.	slope	O'Gara Coal Mining Co.	Clarksburg
51	"	Lukens.	drift	Lukens Coal Co.	Clarksburg
52	"	Chieftain No. 1.	drift	Chieftain Coal Co.	Wilsonburg
53	"	Chieftain No. 2.	drift	Chieftain Coal Co.	Wilsonburg
54	"	Pitcairn.	drift	Pitcairn Coal Co.	Clarksburg
55	"	Harold.	drift	Harold Coal & Coke Co.	Clarksburg
56	"	Girard No. 2.	drift	Short Line Coal Co.	Dola
57	"	Dola.	drift	J. W. Overholt Coal Co.	Clarksburg
58	Marion	Murray.	drift	Fairmont Coal Co.	Fairmont
59	"	Montana.	drift	Fairmont Coal Co.	Fairmont
60	"	Aurora.	drift	Fairmont Coal Co.	Fairmont

*Just being opened.

NAME OF SUPERINTENDENT, NAME OF MINE BOSS, SEAMS
WORKED AND THICKNESS, AND TOTAL NUMBER OF
INSIDE EMPLOYEES.

Name of Superintendent.	Name of Mine Boss.	Name of Coal Bed Worked.	Thickness. Ft. In.	Kind of Ventilation.	Total Inside Employees.	No.
George Millward.....		Pittsburg.	4 - 6.	furnace...	11	1
J. L. Spence.....	J. L. Spence.....	Pittsburg.	4 - 6.	furnace...	47	2
O. L. Marquet.....	Wilson Holmes.....	Pittsburg.	5 - 0.	furnace...	24	3
O. L. Marquet.....	Wilson Holmes.....	Pittsburg.	4 - 8.	fire basket	19	4
Elmer Hough.....	J. R. Patrick.....	Pittsburg.	5 - 4.	furnace...	42	5
E. G. Flinn.....	E. G. Flinn.....	Pitts. No. 8	4 - 10.	furnace...	45	6
P. J. Harrigan.....	A. Lafferty.....	Up. Free.	3 - 10.	fan.....	38	7
M. M. Cullen.....	J. H. Cullen.....	No. 6.	4 - 6.	furnace...	11	8
C. F. Wagoner.....	Wm. Ledyard.....	No. 7a	4 - 0.	fan.....	128	10
C. F. Wagoner.....	John Wolf.....	No. 7a	4 - 0.	shaft.....	18	11
W. S. Marquet.....	Harrison Bailey.....	No. 6.	4 - 0.	shaft.....	9	12
J. H. Nuzum.....	Thomas Pollock.....	Pittsburg.	7 - 0.	fan.....	169	13
H. H. Watson.....	W. B. Sims.....	Pittsburg.	7 - 0.	fan.....	60	14
J. L. Meredith.....	J. L. Meredith.....	Pittsburg.	6 - 6.	basket.....	27	15
W. J. Keefe.....	G. T. Gandy.....	Pittsburg.	7 - 0.	fan.....	51	16
Lowell Childs.....	L. C. Keener.....	Pittsburg.	7 - 0.	fan.....	61	17
J. W. Parker.....	G. W. Ellason.....	Pittsburg.	5 - 6.	fan.....	58	18
J. W. Parker.....	S. L. Schrader.....	Pittsburg.	5 - 6.	fan.....	71	19
G. W. Fleming.....	D. Gantz.....	Pittsburg.	7 - 0.	fan.....	143	20
G. W. Fleming.....	Wm. Wallace.....	Pittsburg.	7 - 0.	fan.....	64	21
Thos. Jarrett, Jr.....	H. S. Colburn.....	Pittsburg.	7 - 0.	2 fans.....	78	22
Thos. Jarrett, Jr.....	Michael Freeman.....	Pittsburg.	7 - 0.	fan.....	72	23
C. F. Ice.....	Bert Russell.....	Pittsburg.	7 - 0.	fan.....	138	24
C. F. Ice.....	Bert Russell.....	Pittsburg.	7 - 0.	fan.....	36	25
C. F. Ice.....	Bert Russell.....	Pittsburg.	7 - 0.	fan.....	70	26
P. B. Robinson.....	C. D. Powell.....	Pittsburg.	7 - 0.	fan.....	46	28
H. H. Watson.....	P. J. McAndrews.....	Pittsburg.	7 - 0.	fan.....	53	29
H. H. Watson.....	W. B. Sims.....	Pittsburg.	7 - 0.	fan.....	45	30
H. H. Watson.....	W. B. Sims.....	Pittsburg.	7 - 0.	fan.....	32	31
W. J. Keefe.....	J. C. Wagner.....	Pittsburg.	7 - 0.	fan.....	35	32
Wm. Goodnite.....	Wm. Goodnite.....	Pittsburg.	6 - 0.	fan.....	114	33
J. H. Nuzum.....	R. A. Brown.....	Pittsburg.	7 - 0.	fan.....	113	34
K. D. Bailey.....	U. B. Blakesmith.....	Pittsburg.	7 - 0.	fan.....	56	35
H. S. Toothman.....	D. A. Wilson.....	Pittsburg.	7 - 0.	fan.....	92	36
E. H. Williams.....	Otis Jacoby.....	Pittsburg.	7 - 0.	fan.....	29	37
E. H. Williams.....	Otis Jacoby.....	Pittsburg.	7 - 0.	fan.....	86	38
E. H. Williams.....	Floyd Gandy.....	Pittsburg.	7 - 0.	fan.....	22	39
C. F. Ice.....	W. H. Hacker.....	Pittsburg.	7 - 0.	fan.....	95	40
C. F. Ice.....	John Walters.....	Pittsburg.	7 - 0.	fan.....	70	41
A. Lisle White.....	T. J. Westmoreland.....	Pittsburg.	8 - 0.	fan.....	59	42
W. H. H. Miller.....	C. C. Lovett.....	Pittsburg.	9 - 0.	fan.....	123	43
L. L. Crawford.....	C. D. M. Kramer.....	Pittsburg.	9 - 0.	fan.....	49	44
H. B. Clark.....	W. A. Ashcraft.....	Pittsburg.	8 - 0.	fan.....	49	45
James F. Cook.....	Chas. Mills.....	Pittsburg.	8 - 4.	furnace...	18	46
L. J. Kestler.....	Samuel Cromer.....	Pittsburg.	7 - 5.	fire basket	30	47
W. G. H. Crawford.....	W. B. Malone.....	Pittsburg.	7 - 0.	fan.....	18	48
W. G. H. Crawford.....	W. B. Malone.....	Pittsburg.	7 - 0.	fan.....	108	49
J. J. Elliott.....	E. Muir.....	Pittsburg.	7 - 0.	fan.....	31	50
Matt Mannix.....	Ben Monroe.....	Pittsburg.	6 - 0.	fan.....	24	51
John Temple.....	Joseph Matheny.....	Pittsburg.	7 - 0.	air jet.....	53	52
C. J. Warnock.....	Wm. Jenkins.....	Pittsburg.	7 - 0.	fan.....	44	53
C. J. Warnock.....	Wm. Jenkins.....	Pittsburg.	7 - 0.	natural.....	23	54
James A. Jenkins.....	Grant White.....	Pittsburg.	8 - 6.	fan.....	28	55
E. W. McClure.....	I. N. Cunningham.....	Pittsburg.	9 - 0.	furnace...	10	56
Isham Keith.....	B. H. Steves.....	Pittsburg.	8 - 6.	furnace...	119	57
C. F. Overholt.....	Jacob Welch.....	Pittsburg.	7 - 0.	natural.....	176	58
J. H. Bainbridge.....	W. N. Malone.....	Pittsburg.	7 - 0.	fan.....	18	59
C. E. Gaskill.....	Wm. Gaskill.....	Pittsburg.	7 - 0.	fan.....	60	60
C. E. Gaskill.....	Mike Freeman.....	Pittsburg.	7 - 0.	furnace...		

DIRECTORY OF THE MINES IN THE STATE OF WEST VIRGINIA FOR THE YEAR ENDING
JUNE 30th, 1904.

No.	COUNTY.	Name of Mine.	Kind of opening.	Name of Company	Postoffice Address.
61	Marion	West Fairmont	shaft	Fairmont Coal Co.	Fairmont
62	"	O'Donnell	drift	Fairmont Coal Co.	Fairmont
63	"	New England	drift	Fairmont Coal Co.	Fairmont
64	"	Gaston	slope	Fairmont Coal Co.	Fairmont
65	"	Monongah No. 2	drift	Fairmont Coal Co.	Fairmont
66	"	Monongah No. 5	drift	Fairmont Coal Co.	Fairmont
67	"	Monongah No. 3	drift	Fairmont Coal Co.	Fairmont
68	"	Monongah No. 6	slope	Fairmont Coal Co.	Fairmont
69	"	Pennols	drift	Fairmont Coal Co.	Fairmont
70	"	Marion	drift	Fairmont Coal Co.	Fairmont
71	"	Anderson	drift	Fairmont Coal Co.	Fairmont
72	"	Highland	drift	Fairmont Coal Co.	Fairmont
73	"	Middleton	drift	Fairmont Coal Co.	Fairmont
74	"	Chiefton	drift	Fairmont Coal Co.	Fairmont
75	"	Hutchinson	slope	Fairmont Coal Co.	Fairmont
76	"	King	drift	The Virginia & Pittsburg C. & C. Co.	Fairmont
77	"	Chatham No. 1	shaft	George's Creek Coal & Iron Co.	Farmington
78	"	Chatham No. 2	shaft	George's Creek Coal & Iron Co.	Farmington
79	"	Federal No. 1	shaft	Federal Coal & Coke Co.	Fairmont
80	"	Stafford	shaft	New Central Coal Co.	Fairmont
81	"	Kilarn	drift	Kilarn Coal & Coke Co.	Everson
82	"	Powell	slope	Powell Coal & Coke Co.	Powell
83	Monongalia	Opekiska	drift	Opekiska Coal & Coke Co.	Opekiska
84	"	Beechwood	drift	Fairmont Coal Co.	Fairmont
85	"	Richard	drift	West Virginia Coal Co.	Morgantown
86	"	Deckers Creek	drift	Deckers Creek Coal & Coke Co.	Morgantown
87	"	Fulmer (suspended)	drift	A. C. Fulmer Coal Co.	Morgantown
88	Marshall	Hitchman	slope	Hitchman Coal & Coke Co.	Wheeling
89	"	Boggs Run	drift	Boggs Run M. & M'g Co.	Wheeling
90	"	Benwood	drift	Wheeling Steel & Iron Co.	Wheeling
91	"	Glendale	shaft	Glendale Coal Co.	Glendale
92	"	Moundsville	shaft	Mound Coal Co.	Wheeling
93	"	Hicks Run Nos 1,2&3	3s'fts	Glen Easton Coal & Coke Co.	Moundsville
94	Ohio	Central	drift	Jochum & Co.	Wheeling
95	"	Whitaker	drift	W. H. Kasley	Wheeling
96	"	Richland	drift	Richland Coal Co.	Wheeling
97	"	Elm Grove	shaft	The Elm Grove Coal Co.	Elm Grove
98	"	Manchester	drift	Reymann Brewing Co.	Wheeling
99	"	McKinley	drift	Wheeling Steam Coal Co.	Wheeling
100	"	La Belle (suspended)	drift	La Belle Iron Works	Wheeling

SECOND DISTRICT, EARL A. HENRY, INSPECTOR.

101	Clay	Elk Manor	drift	Dorfee Coal Mining Co.	Dorfee
102	"	*Ohio	drift	The Ohio Coal Mining Co.	Queen Shoals
103	"	*Malcolm	drift	Malcolm Coal Co.	Scotford
104	"	*Willey	drift	Willey Coal Co.	Scotford
105	"	*Carter	drift	Carter Coal Co.	Scotford
106	"	*Scott	drift	Gauley Consolidated Coal Co.	Scotford
107	Kanawha	Jones	drift	Falling Rock Cannel Coal Co.	Weir
108	"	Graham	drift	The Keystone Coal Co.	Graham Mines
109	"	Queen Shoals	drift	The Elk Coal Co.	Charleston
110	"	Turner	drift	The Elk Coal Co.	Charleston
111	"	*Morris Cr. No. 2	drift	The Elk Coal Co.	Charleston
112	"	*Clendennin	drift	Clendennin Coal & Coke Co.	Queen Shoals
113	"	Lucas-Ray	drift	Lucas-Ray Coal Co.	Heatherman
114	"	Heatherman	drift	Jefferson Coal & Coke Co.	Heatherman
115	"	Pen-Mar No. 1	drift	Pen-Mar Mining Co.	Graham Mines
116	"	Sycamore Nos. 1, 2 & 3	3d'fts	J. G. Vaughan	Graham Mines

*Just being opened.

NAME OF SUPERINTENDENT, NAME OF MINE BOSS, SEAMS WORKED AND THICKNESS, AND TOTAL NUMBER OF INSIDE EMPLOYEES.

Name of Superintendent.	Name of Mine Boss.	Name of Coal Bed Worked.	Thickness. Ft. In.	Kind of Ventilation.	Total Inside Employee.	No.
J. J. Brennen	S. R. Fette	Pittsburg.	7 - 0	2 fans	168	61
J. C. McKinney	J. C. McKinney	Pittsburg.	7 - 0	natural	80	82
G. T. Watson	J. C. Thompson	Pittsburg.	7 - 0	fan	248	63
G. T. Watson	C. H. Tarleton	Pittsburg.	7 - 0	fan	188	64
A. J. Ruckman	Thos. Kileen	Pittsburg.	7 - 0	fan	207	65
A. J. Ruckman	Thos. Kileen	Pittsburg.	7 - 0	fan	207	66
A. J. Ruckman	James Rogers	Pittsburg.	7 - 0	2 fans	265	67
A. J. Ruckman	Thos. Donlin	Pittsburg.	7 - 0	fan	243	68
Rush Miller	John Rigens	Pittsburg.	7 - 0	fan	75	69
Rush Miller	G. B. Skinner	Pittsburg.	7 - 0	furnace	24	70
Rush Miller	Geo. Coburn	Pittsburg.	7 - 0	fan	119	71
Rush Miller	B. E. Satterfield	Pittsburg.	7 - 0	fan	95	72
Rush Miller	J. E. Dent	Pittsburg.	7 - 0	fan	71	73
Rush Miller	Claud Addison	Pittsburg.	7 - 0	fan	95	74
G. W. Fleming	Ed. Clingan	Pittsburg.	7 - 0	fan	85	75
R. M. Hite	John Brown	Pittsburg.	9 - 0	fan	122	76
R. L. Somerville	Evan L. Griffith	Pittsburg.	9 - 0	fan	171	77
R. L. Somerville	Evan L. Griffith	Sewickley.	5 - 8	fan	78	78
Fred C. Lewis	John Clark	Pittsburg.	9 - 0	fan	77	79
Duncan Sinclair	Peter McAlinden	Pittsburg.	9 - 0	fan	48	80
C. E. Zeek	P. J. Rooney	Pittsburg.	6 - 0	fan	36	81
C. A. Osborn	J. E. Hamilton	Up. Kittan	8 - 6	furnace	30	82
W. S. Wood	Frank Love	Pittsburg.	8 - 0	natural	41	83
W. W. Ferguson	Lee Cottrille	Pittsburg.	7 - 0	furnace	49	84
James Carter	J. M. Heaster	Up. Free	4 - 4	fan	67	85
R. H. King	T. Cramer	Up. Free	4 - 4	furnace	50	86
John Miller		Pittsburg.	8 - 0	furnace	87	87
W. H. Koch	E. C. Pickett	Pitts. No. 8	5 - 8	fan	170	88
Philip Kunz	Eugene Miller	Pitts. No. 8	5 - 6	fan	52	89
Chalkley Dawson	Wm. Turnbull	Pitts. No. 8	5 - 9	fan	68	90
J. E. Wallace	J. W. Smith	Pitts. No. 8	6 - 0	fan	98	91
J. W. Berry	Jake Leonard	Pitts. No. 8	5 - 6	fan	71	92
		Pitts. No. 8	6 - 0			93
John Jochum	John Jochum	Pittsburg.	4 - 8	furnace	5	94
W. H. Kasley	Wm. Magruder	Pittsburg.	4 - 10	fan	19	95
W. N. Phillips	John Aitken	Pitts. No. 8	5 - 4	furnace	48	96
J. B. Chambers	W. E. McGlone	Pitts. No. 8	6 - 0	fan	62	97
C. C. Schmidt	John Donahue	Pitts. No. 8	4 - 6	fan	11	98
J. C. McKinley	Paul Leonard	Pitts. No. 8	5 - 0	furnace	37	99
Wm. H. Travis	Richard Blon	No. 5	5 - 0	furnace	100	100
Geo. W. La Rue	W. H. Mease	Winifrede	4 - 10	furnace	88	101
J. R. Flaherty	Tom King	No. 5	3 - 6	natural	3	102
S. L. Walker, Gen. Mgr.		Coalburg	4 - 8			103
S. L. Walker, Gen. Mgr.		Coalburg	4 - 8			104
Wm. Tamplin		Coalburg	4 - 8			105
A. M. Robinson	David Pugh	Coalburg	4 - 0	furnace	106	106
H. G. Young	R. B. Young	Cannel	2 - 6	fan	27	107
J. C. Galbreath	C. Johnson	Coalburg	3 - 2	furnace	42	108
Henry Davis	G. Powers	No. 5	4 - 0	furnace	70	109
Henry Davis	W. D. Davis	No. 5	4 - 0	fan	101	110
Henry Davis	R. P. Thompson	No. 5	4 - 0	fan	101	111
Geo. W. Gaghan	Geo. Thompson	No. 5	3 - 4	natural	4	112
Samuel Simpkins	Samuel Simpkins	No. 5	3 - 4	natural	13	113
James Heatherman	Metro Patrick	No. 5	3 - 0	furnace	13	114
J. C. Galbreath	Chas. Johnson	No. 5	5 - 0	natural	15	115
J. G. Vaughan	J. H. Vaughan	(N. Co'lbg	6 - 0	furnace		
		(No. 5	4 - 0	natural	22	116
		(Gal'tzin	3 - 0	natural		

*DIRECTORY OF THE MINES IN THE STATE OF WEST VIRGINIA FOR THE YEAR ENDING
JUNE 30th, 1904.*

No.	COUNTY.	Name of Mine.	Kind of opening.	Name of Company.	Postoffice Address.
117	Kanawha	Mill Creek	drift	Mill Creek Cannel Coal Co.	Charleston
118	"	Black Hawk	drift	Black Hawk Coal Co.	Black Hawk
119	"	Calderwood	drift	Campbells Creek Coal Co.	Malden
120	"	Co-operative or No. 1	drift	Campbells Creek Coal Co.	Malden
121	"	Black Diamond	drift	New Diamond Coal Co.	Diamond
122	"	Quincy	drift	Quincy Coal Co.	Quincy
123	"	K. & H. No. 101	drift	Kanawha & Hocking C. & C. Co.	Cedar Grove
124	"	K. & H. No. 103	drift	Kanawha & Hocking C. & C. Co.	Cedar Grove
125	"	K. & H. No. 104	drift	Kanawha & Hocking C. & C. Co.	Cedar Grove
126	"	K. & H. No. 105	drift	Kanawha & Hocking C. & C. Co.	Cedar Grove
127	"	K. & H. No. 106	drift	Kanawha & Hocking C. & C. Co.	Cedar Grove
128	"	K. & H. No. 108	drift	Kanawha & Hocking C. & C. Co.	Cedar Grove
129	"	K. & H. No. 109	drift	Kanawha & Hocking C. & C. Co.	Cedar Grove
130	"	K. & H. No. 110	drift	Kanawha & Hocking C. & C. Co.	Cedar Grove
131	"	K. & H. No. 119	drift	Kanawha & Hocking C. & C. Co.	Cedar Grove
132	"	Kellys Creek	drift	Kelleys Creek Colliery Co.	Ward
133	"	Cannelton No. 2	drift	Cannelton Coal Co.	Cannelton
134	"	Shrewsbury	drift	The Willis Coal & Coke Co.	Marmet
135	"	Lens Creek	drift	The Marmet Co.	Marmet
136	"	Butler	drift	The Marmet Co.	Marmet
137	"	Monarch	drift	The Marmet Co.	Marmet
138	"	Gas	drift	Winifrede Coal Co.	Winifrede
139	"	South	drift	Winifrede Coal Co.	Winifrede
140	"	North Pick	drift	Winifrede Coal Co.	Winifrede
141	"	North Machine	drift	Winifrede Coal Co.	Winifrede
142	"	West	drift	Winifrede Coal Co.	Winifrede
143	"	Ronda	drift	Coalburg Colliery Co.	Ronda
144	"	Acme	drift	Stevens Coal Co.	Acme
145	"	Keystone	drift	Stevens Coal Co.	Acme
146	"	Empire	drift	Stevens Coal Co.	Acme
147	"	Shamrock	drift	Shamrock Coal Co.	Kayford
148	"	Dry Branch No. 1	drift	Dry Branch Coal Co.	Dry Branch
149	"	Dry Branch No. 2	drift	Dry Branch Coal Co.	Dry Branch
150	"	Dry Branch No. 3	drift	Dry Branch Coal Co.	Dry Branch
151	"	Belleclare	drift	Belleclare Coal Co.	Decota
152	"	Ruby	drift	Belleclare Coal Co.	Decota
153	"	Oakley	drift	Cardiff Coal Co.	Charleston
154	"	Climax	drift	Cardiff Coal Co.	Charleston
155	"	Horton Nos. 1 & 2	2 dfts	Cardiff Coal Co.	Charleston
156	"	Holly	drift	Holly Coal Co.	Leewood
157	"	Quarrier	drift	Quarrier Coal Co.	Wake Forest
158	"	Red Warrior	drift	Red Warrior Coal Co.	Warrior
159	"	Cherokee	drift	Cherokee Coal Co.	Leewood
160	"	Wake Forest	drift	Wake Forest Mining Co.	Wake Forest
161	"	Leewood No. 1	drift	Leewood Colliery Co.	Eskdale
162	"	Leewood No. 2	drift	Leewood Colliery Co.	Eskdale
163	"	Davis No. 1	drift	M. T. Davis Coal Co.	Ohley
164	"	Caledonian	3 dfts	Caledonian Coal & Coke Co.	Warrior
165	"	Thistle	drift	Thistle Coal Co.	Kayford
166	"	Peerless	drift	Peerless Gas Coal Co.	Ronda
167	"	La Mont No. 1	drift	La Mont Mining Co.	Beth
168	"	La Mont No. 2	drift	La Mont Mining Co.	Beth
169	"	South	8 dfts	Carbon Coal Co.	Carbon
170	"	North	drift	Carbon Coal Co.	Carbon
171	"	West	drift	Republic Coal Co.	Carbon
172	"	No. 1	drift	West Virginia Colliery Co.	Wevaco
173	"	No. 2	drift	West Virginia Colliery Co.	Wevaco
174	"	Raccoon	drift	Raccoon Fork Coal Co.	Kayford
175	"	United	drift	United Colliery Co.	Wevaco

*NAME OF SUPERINTENDENT, NAME OF MINE BOSS, SEAMS
WORKED AND THICKNESS, AND TOTAL NUMBER OF
INSIDE EMPLOYEES.*

Name of Superintendent.	Name of Mine Boss.	Name of Coal Bed Worked.	Thickness. Ft. In.	Kind of Ventilation.	Total Inside Employees.	No.
W. E. Brooke	John Holmes	Cannel	4 - 0	fan	85	117
E. H. Robertson	J. B. Lawrence	Coalburg	5 - 4	fan	34	118
W. V. Rensford	W. B. Calderwood	Campb. Cr	5 - 6	fan	50	119
W. V. Rensford	W. B. Calderwood	No. 5	5 - 0	fan	105	120
Arthur Robinson	James Hemmings	Winifrede	4 - 0	natural	43	121
Wm. Dickinson	W. J. Krantz	Lewiston	3 - 0	furnace	89	122
W. F. Mandt	James Kennedy	No. 5	5 - 8	natural	85	123
W. F. Mandt	J. L. Miller	Cedar Gro.	3 - 0	fan	45	124
W. F. Mandt	J. L. Miller	Cedar Gro.	3 - 0	fan	34	125
W. F. Mandt	H. E. Saylor	Coalburg	5 - 8	fan	100	126
W. F. Mandt	H. E. Saylor	No. 5	5 - 6	fan	90	127
W. F. Mandt	H. J. Wills	Coalburg	5 - 4	fan	33	128
W. F. Mandt	H. J. Wills	Nos 5	5 - 6	fan	70	129
W. F. Mandt	J. L. Miller	Cedar Gro.	3 - 0	fan	64	130
W. F. Mandt	P. T. Neylan	No. 5	5 - 8	natural	28	131
J. W. Dawson, Gen. M ^r	Wm. H. Shannon	Coalburg	6 - 0	fan	78	132
Langdon Lea	Chas. Biene	No. 2 Gas.	7 - 0	fan	137	133
J. H. Shrewsbury	D. S. Stone	Lo. Kittan	4 - 2	furnace	22	134
Alfred Reddington	Joseph Powers	Lens Cr'k	3 - 6	furnace	109	135
Alfred Reddington	J. A. Turner	Winifrede	4 - 2	fan	140	136
Alfred Reddington	R. A. Snead	Cedar Gro.	3 - 0	2 fans	190	137
R. B. Cassady	John W. Gay	Peerless	3 - 9	furnace	26	138
R. B. Cassady	John S. Williams	Winifrede	5 - 0	fan	118	139
R. B. Cassady	J. H. Johnston	Winifrede	5 - 0	fan	116	140
R. B. Cassady	James W. Elliott	Winifrede	5 - 0	fan	141	141
R. B. Cassady	David Brinkley	Winifrede	5 - 0	fan	39	142
W. E. Nugen	Dan Morris	Coalburg	7 - 6	natural	97	143
E. H. Shonk	J. F. White	Coalburg	5 - 6	fan	89	144
E. H. Shonk	J. W. Branham	No. 2 Gas.	5 - 6	fan	85	145
E. H. Shonk	W. H. Morris	No. 2 Gas.	5 - 8	fan	89	146
Thos. A. Kay	John Kay	No. 2 Gas.	6 - 0	furnace	12	147
R. C. Lewis	James Lane	Peerless	3 - 8	natural	25	148
R. C. Lewis	R. M. Odell	Belmont	4 - 6	natural	85	149
R. C. Lewis	E. M. Odell	Coalburg	5 - 6	furnace	85	150
F. C. Prichard	W. R. Jones	No. 2 Gas.	5 - 6	furnace	29	151
F. C. Prichard	Joseph Filkins	No. 5	5 - 8	natural	29	152
H. C. Dungan	W. G. Coyle	Lewiston	4 - 6	fan	39	153
H. C. Dungan	Aaron Carver	No. 2 Gas.	6 - 0	furnace	42	154
H. C. Dungan	Wm. Roberts	Coalburg	6 - 0	furnace	23	155
J. L. Davis	H. L. Fisher	No. 2 Gas.	5 - 0	furnace	23	156
A. P. Shearer	F. E. Shearer	No. 2 Gas.	5 - 0	furnace	38	157
C. H. Mead	L. B. Petty	No. 2 Gas.	6 - 0	furnace	25	158
J. C. Gilmour	W. H. Dover	No. 2 Gas.	5 - 0	furnace	75	159
T. A. Bartlam	R. B. Cobb	Keystone	5 - 6	furnace	69	160
H. C. Dungan	Chas. Whitney	No. 1 Gas.	3 - 10	furnace	61	161
H. C. Dungan	H. Coherne	No. 1 Gas.	3 - 10	furnace	61	162
M. W. Murphy	Robert Thompson	Lewiston	5 - 6	furnace	31	163
J. C. Gilmour	Hugh Lanter	No. 2 Gas.	4 - 8	3 furnaces	18	164
Thos. A. Kay	John W. Eastham	No. 2 Gas.	5 - 0	furnace	38	165
M. F. Vanden	Henry Vlores	Peerless	4 - 0	furnace	20	166
Paul L. James	J. E. Fleeman	No. 1 Gas.	3 - 10	furnace	23	167
Paul L. James	J. E. Fleeman	No. 1 Gas.	3 - 10	furnace	23	168
Frank Homan	Lee Jenkins	No. 2 Gas.	5 - 6	7 fans	138	169
K. D. Quarrier	Tom Baldwin	No. 2 Gas.	5 - 6	fan	38	170
Frank Homan	Owen Meadows	No. 2 Gas.	6 - 0	fan	99	171
John Holmes	George Buckley	No. 2 Gas.	6 - 0	natural	29	172
John Holmes	Daniel Workman	No. 2 Gas.	6 - 0	natural	106	173
Thos. A. Kay	Hugh Vaughan	No. 2 Gas.	5 - 6	fan	48	174
Fred N. Moore	D. S. Holmes	No. 2 Gas.	5 - 4	fan	48	175

**DIRECTORY OF THE MINES IN THE STATE OF WEST VIRGINIA FOR THE YEAR ENDING
JUNE 30th, 1904.**

No.	COUNTY.	Name of Mine.	Kind of opening.	Name of Company.	Postoffice Address.
176	Kanawha	Kayford No. 1.....	drift	Cabin Creek Mining Co....	Kayford
177	"	Kayford No. 2.....	slope	Cabin Creek Mining Co....	Kayford
178	"	Pine Grove.....	drift	Pine Grove Coal Co.....	Coalburg
179	"	Klondike.....	drift	Robinson Coal Co.....	Coalburg
180	"	No. 5.....	drift	Robinson Coal Co.....	Coalburg
181	"	East Bank.....	drift	Shenandoah Coal & Coke Co.	East Bank
182	"	Belmont or Coalburg	drift	Belmont Coal Co.....	Crown Hill
183	"	Klondike or Lewiston	drift	Belmont Coal Co.....	Crown Hill
184	"	Coalburg.....	drift	Equitable Coal Co.....	Crown Hill
185	"	Kanawha.....	drift	Equitable Coal Co.....	Crown Hill
186	"	Lewiston (Black Cat).	drift	The Pawnee Coal Co.....	Crown Hill
187	"	Coalburg (Black Cat).	drift	The Pawnee Coal Co.....	Crown Hill
188	"	Scranton.....	drift	Scranton Splint Coal Co....	Pratt.....
189	"	Paint Creek.....	drift	Paint Creek Coal Co.....	Pratt.....
190	"	Standard.....	drift	Standard Splint & Gas C.Co.	Pratt.....
191	"	Grose.....	drift	Grose Colliery Co.....	Tombsburg
192	"	Imperial No. 1.....	drift	Imperial Colliery Co.....	Burnwell
193	"	Imperial No. 2.....	drift	Imperial Colliery Co.....	Burnwell
194	"	Eagle No. 1 (abandoned)	drift	Greenbrier Coal Co.....	Burnwell
195	"	Gas No. 2 or Greenbrier	drift	Greenbrier Coal Co.....	Burnwell
196	"	Masters (abandoned).	drift	Greenbrier Coal Co.....	Burnwell
197	"	Wacomah.....	3 drifts	Wacomah Coal Co.....	Wacomah
198	"	No. 1.....	drift	Detroit & Kanawha Coal Co.	Ash Camp
199	"	Morton.....	drift	Morton Coal Co.....	Ash Camp
200	"	Nuckolls.....	drift	Nuckolls Coal & Coke Co....	Pratt.....
201	"	Chesapeake.....	drift	Chesapeake Mining Co.....	Handley
202	"	Kanawha.....	drift	Montgomery Coal Co.....	Montgomery
203	"	Black Band No. 1.....	drift	Kanawha & Coal River C.Co.	Spring Hill
204	"	Black Band No. 2.....	drift	Kanawha & Coal River C.Co.	Spring Hill
205	"	Black Band No. 3.....	drift	Kanawha & Coal River C.Co.	Spring Hill
206	"	Carlin.....	drift	Kanawha & Coal River C.Co.	Spring Hill
207	"	McConthay.....	drift	West Virginia Peerless C.Co.	Lewiston
208	"	Hugheson No. 2.....	drift	Hughes Creek Coal Co.....	Roe.....
209	"	*Banner.....	drift	Banner Coal Co.....	Pratt.....
210	"	*Kanawha Block.....	drift	Kanawha Block Coal Co.....	Piatt.....
211	"	*Persinger.....	drift	Persinger Coal Co.....	West Fairfield
212	"	*Witcher.....	drift	Witcher Coal Co.....	Witcher
213	"	Morris Creek No. 1.....	drift	Morris Creek Coal Co.....	Montgomery
214	Lincoln	Rochester.....	drift	Rochester Coal Co.....	Hadley
215	"	Lincoln No. 1.....	drift	Lincoln Coal Co.....	Huntington
216	Mason	Hope.....	drift	Hope Salt & Coal Co.....	Mason.....
217	"	McDaniel.....	drift	Mason City Mining Co.....	Mason.....
218	"	Jackson.....	drift	Liverpool Salt & Coal Co....	Hartford
219	"	Hartford.....	slope	Hartford City Salt Co.....	Hartford
220	"	New Castle.....	drift	Consumers Coal & Mining Co.	Spilman
221	"	Camden.....	drift	Camden Clay Co.....	Spilman
222	"	Klondike.....	drift	Klondike Coal Co.....	Hartford
223	"	Beech Grove.....	drift	Beech Grove Coal Co.....	Mason.....
224	"	Harris.....	drift	Thos. D. Harris.....	Hartford
225	Putnam	Plymouth.....	drift	Plymouth Coal & Mining Co.	Plymouth
226	"	Manilla.....	drift	Plymouth Coal & Mining Co.	Plymouth
227	"	Pocatolico.....	drift	The Otto-Marmet C. & M. Co.	Raymond City
228	"	Big Otto No. 1.....	drift	The Otto-Marmet C. & M. Co.	Raymond City
229	"	Big Otto No. 2.....	drift	The Otto-Marmet C. & M. Co.	Raymond City
230	"	Black Betsey.....	drift	Black Betsey C. & M. Co....	Black Betsey
231	"	Oak Forest.....	slope	The Oak Forest C. & M. Co.	Oak Forest
232	"	*Alpha.....	drift	Alpha Coal Mining Co.....	Plymouth

THIRD DISTRICT, EDWARD PINEKEY, INSPECTOR.

233	Fayette	*No. 1.....	drift	Hickory Camp Coal Co.....	Mahan
234	"	K. & H. No. 111.....	drift	Kanawha & Hocking C. & C. Co.	Longacre
235	"	K. & H. No. 112.....	drift	Kanawha & Hocking C. & C. Co.	Longacre
236	"	K. & H. No. 113 (aband.)	drift	Kanawha & Hocking C. & C. Co.	Longacre

*Just being opened.

**NAME OF SUPERINTENDENT, NAME OF MINE BOSS, SEAMS
WORKED AND THICKNESS, AND TOTAL NUMBER
OF INSIDE EMPLOYEES.**

Name of Superintendent.	Name of Mine Boss,	Name of Coal Bed Worked.	Thickness. Ft. In.	Kind of Ven- tilation.	Total Inside Employees.	No.
Thos. A. Kay	Geo. W. Eastham	No. 2 Gas.	6 - 0	fan	165	176
Thos. A. Kay	Geo. W. Eastham	No. 2 Gas.	4 - 0	furnace		177
John Peacock	John Peacock	Peerless	3 - 8	natural	17	178
A. M. Wooldridge	James Murray	Cedar Gro.	2 - 8	furnace	23	179
A. M. Wooldridge	James Murray	Coalburg	2 - 8	furnace	54	180
Henry Stephenson	Henry Stephenson	Cedar Gro.	2 - 8	fan	24	181
J. C. Morrison	H. W. Scott	Coalburg	6 - 0	fan	101	182
J. C. Morrison	H. W. Scott	Lewiston	4 - 0	fan		183
J. M. Roan, Jr.	C. T. Slack	Coalburg	4 - 8	fan	110	184
J. M. Roan, Jr.	C. T. Slack	Kanawha	3 - 10	fan		185
W. E. Dial	D. H. Hudnall	Lewiston	4 - 0	fan	86	186
W. E. Dial	D. H. Hudnall	Coalburg	6 - 6	fan		187
Wm. W. Mucklow	John J. Cox	Coalburg	6 - 0	fan	75	188
Wm. W. Mucklow	J. R. Mucklow	Coalburg	7 - 0	fan	72	189
J. A. Straughan	Ed. Foster	Coalburg	8 - 0	furnace	60	190
T. C. McVey	J. C. Grissinger	No. 1 Eagle	3 - 8	furnace	48	191
Lee Long	Thos. Seacrist	Eagle	4 - 5	fan	78	192
Lee Long	W. A. Otey	Eagle	4 - 5	fan		193
A. C. Masters		Eagle	4 - 0			194
A. C. Masters	W. H. Vaughan	No. 2 Gas.	5 - 0	furnace	45	195
A. C. Masters						196
E. G. Sims	Ed. Hope	Coalburg	6 - 6	3 furnaces	35	197
John E. Miner	Floyd Dillon	Eagle	3 - 10	furnace	17	198
Quin Morton	Peter Wolf	Eagle	4 - 0	furnace	35	199
A. D. Harrah	C. C. Comer	No. 2 Gas.	4 - 6	furnace	25	200
J. B. Lewis	Alex. Thompson	Kanawha	5 - 0	fan	120	201
S. H. Montgomery	S. P. Johnson	Kanawha	4 - 0	natural	84	202
Arthur Mitchell	Chas. Snodgrass	Bl'k Band.	3 - 0	fan	118	203
Arthur Mitchell	Chas. McCann	Bl'k Band.	3 - 0	furnace	25	204
Arthur Mitchell	Chas. McCann	Bl'k Band.	3 - 0	furnace	46	205
Arthur Mitchell	James Leavans	Cedar Gro.	3 - 0	fan	28	206
C. H. Hardy	Wm. Clendennin	Peerless	2 - 10	furnace	22	207
J. W. Moore	John Nugent	Coalburg	4 - 6	natural	19	208
W. W. Mucklow	Dan Waters	Coalburg	6 - 0	natural		209
						210
		Peerless	2 - 9	natural		211
John T. Todd	John Filbin	Kanawha	5 - 0	fan	73	212
P. H. Grelle	C. C. Vaughan	Freeport	8 - 4	furnace	28	213
F. H. Mathews	Joseph Pirrung	Kanawha	7 - 9	furnace	50	214
D. C. Davis	Henry Williams	Pittsburg	4 - 6	furnace	24	215
G. H. Gress	W. L. Harris	Pittsburg	5 - 2	furnace	34	216
H. F. Smith	Sam Edwards	Pittsburg	4 - 6	fan	26	217
D. E. Newton	Richard Jenkins	Pittsburg	4 - 8	fan	22	218
Harry Hart	James Smith	Pittsburg	4 - 6	furnace	80	219
N. W. Quillin	Jos. E. Armstrong	Pittsburg	4 - 0	furnace	13	220
Howard Robinson	Howard Robinson	Pittsburg	4 - 10	furnace	29	221
J. Icenhower	P. F. Dally	Pittsburg	5 - 6	shaft	30	222
Thos. D. Harris	John Harris	Pittsburg	4 - 6	shaft	11	223
W. C. Mitchell	Joseph Virgin	Pittsburg	5 - 6	fan	149	224
W. C. Mitchell	Joseph Virgin	Pittsburg	5 - 6	furnace	64	225
Ed. Schonebaum, G. M.	David Sanckrock	Pittsburg	5 - 10	furnace	115	226
Ed. Schonebaum, G. M.	Andrew Utt	Pittsburg	5 - 10	fan	350	227
Ed. Schonebaum, G. M.	Robert Fields	Pittsburg	5 - 10	natural		228
F. L. Tyree	George Cary	Pittsburg	5 - 8	fan	216	229
D. L. Thomas	Wm. Thomas	Pittsburg	4 - 0	fan	16	230
		Pittsburg				231
						232
		No. 2 Gas.				233
T. E. Roan	J. W. Straughan	No. 2 Gas.	5 - 0	fan	114	234
T. E. Roan	J. W. Straughan	No. 2 Gas.	5 - 0	fan	128	235
T. E. Roan		No. 1 Gas.	4 - 0			236

**DIRECTORY OF THE MINES IN THE STATE OF WEST VIRGINIA FOR THE YEAR ENDING
JUNE 30th, 1904.**

No.	COUNTY.	Name of Mine.	Kind of opening.	Name of Company.	Postoffice Address.
237	Fayette	K. & H. No. 114	drift	Kanawha & Hocking C. & C. Co.	Longacre
238	"	K. & H. No. 115	drift	Kanawha & Hocking C. & C. Co.	Longacre
239	"	K. & H. No. 117	drift	Kanawha & Hocking C. & C. Co.	Longacre
240	"	No. 1	drift	Columbus Iron & Steel Co.	Martinsburg
241	"	Kanawha Gas	drift	Kanawha Gas Coal Co.	Smithers
242	"	Oakland	drift	W. R. Johnson & Co.	Longacre
243	"	Boomer No. 1	drift	Boomer Coal & Coke Co.	Boomer
244	"	Boomer No. 2	drift	Boomer Coal & Coke Co.	Boomer
245	"	Boomer No. 3	drift	Boomer Coal & Coke Co.	Boomer
246	"	Eureka No. 5	drift	Gordon Coal & Coke Co.	Montgomery
247	"	Eureka No. 1	drift	Gordon Coal & Coke Co.	Montgomery
248	"	Eureka No. 2	drift	Gordon Coal & Coke Co.	Montgomery
249	"	St. Clair No. 1	drift	Gordon Coal & Coke Co.	Eagle
250	"	St. Clair No. 2	drift	Gordon Coal & Coke Co.	Eagle
251	"	Central No. 1	drift	Chapman Iron, Coal & Coke Co.	Fire Creek
252	"	Mecca No. 2	drift	Mecca Coal & Coke Co.	Montgomery
253	"	Mecca No. 5	drift	Mecca Coal & Coke Co.	Montgomery
254	"	Economy	slope	Economy Fuel Co.	Montgomery
255	"	Eagle or No. 1	drift	W. R. Johnson	Crescent
256	"	Gas or No. 2	drift	W. R. Johnson	Crescent
257	"	No. 5 Split	drift	W. R. Johnson	Crescent
258	"	No. 5	drift	Carver Brothers Co.	Eagle
259	"	Eagle	drift	Carver Brothers Co.	Eagle
260	"	California	drift	Carver Brothers Co.	Eagle
261	"	Edgewater No. 1	drift	Carver Brothers Co.	Eagle
262	"	Edgewater No. 2	drift	Carver Brothers Co.	Eagle
263	"	Edgewater No. 3	drift	Carver Brothers Co.	Eagle
264	"	Vulcan	drift	The Mt. Carbon Co., Ltd.	Powellton
265	"	South	drift	The Mt. Carbon Co., Ltd.	Powellton
266	"	Excelsior	drift	The Mt. Carbon Co., Ltd.	Powellton
267	"	Digby	drift	The Gt. Kanawha Coll. Co., Ltd.	Mt. Carbon
268	"	No. 1 or Brewster	drift	The Gt. Kanawha Coll. Co., Ltd.	Mt. Carbon
269	"	Eagle or Edwardes	drift	The Gt. Kanawha Coll. Co., Ltd.	Mt. Carbon
270	"	No. 5	drift	The Gt. Kanawha Coll. Co., Ltd.	Mt. Carbon
271	"	Kimberly No. 1	drift	Cardiff Coal Co.	Charleston
272	"	Kimberly No. 2	drift	Cardiff Coal Co.	Charleston
273	"	Columbia	drift	Cardiff Coal Co.	Charleston
274	"	*Elk Ridge No. 1 & 2	2 drifts	Cardiff Coal Co.	Charleston
275	"	Gauley Mt. No. 1	drift	The Gauley Mountain Coal Co.	Ansted
276	"	Gauley Mt. No. 2	drift	The Gauley Mountain Coal Co.	Ansted
277	"	*Loup Creek	drift	The Loup Creek Colliery Co.	Robson
278	"	Gaymont	drift	Newcastle Coal Co.	Gaymont
279	"	Elmo	drift	Isabel Coal & Coke Co.	Elmo
280	"	Sunnyside	drift	Isabel Coal & Coke Co.	Elmo
281	"	Michigan	drift	Michigan Coal Co.	Fayette
282	"	Fayette	drift	The Fayette Coal & Coke Co.	Fayette
283	"	Kay Moor No. 1	drift	The Low Moor Iron Co.	Kay Moor
284	"	Kay Moor No. 2	drift	The Low Moor Iron Co.	Kay Moor
285	"	*Catawact	drift	Catawact Coal & Coke Co.	Kanawha Falls
286	"	Newlyn	drift	Manufacturers & Consumers C. Co.	Fayette
287	"	Nuttallburg	drift	Nuttallburg Coal & C. Co.	Nuttallburg
288	"	Keenays Creek	drift	Nuttallburg Coal & C. Co.	Nuttallburg
289	"	Brown's	drift	Brown Coal Co.	Nuttallburg
290	"	Boone	drift	Boone Coal & Coke Co.	Boone

* Just being opened.

*NAME OF SUPERINTENDENT, NAME OF MINE BOSS, SEAMS
WORKED AND THICKNESS, AND TOTAL NUMBER OF
INSIDE EMPLOYEES.*

Name of Superintendent.	Name of Mine Boss.	Name of Coal Bed Worked.	Thickness. Ft. In.	Kind of Ventilation.	Total Inside Employees.	No.
T. E. Roan.....	Robert Taylor.....	No. 2 Gas.	4 - 6...	fan.....	128	237
T. E. Roan.....	Robert Taylor.....	No. 2 Gas.	5 - 6...	fan.....	133	238
T. E. Roan.....	C. D. Birthisel.....	No. 2 Gas.	4 - 6...	fan.....	74	239
G. H. Marting.....	J. Phillips.....	No. 2 Gas.	5 - 6...	2 fans.....	66	240
Thos. A. Bartlam.....	John H. Titlow.....	No. 2 Gas.	5 - 10...	fan.....	120	241
Thos. A. Bartlam.....	Benj. Hill.....	No. 2 Gas.	5 - 10...	fan.....	68	242
W. M. Gillie.....	Mike Blythe.....	No. 2 Gas.	5 - 8...	fan.....	111	243
W. M. Gillie.....	Joe Nutter.....	No. 1 Gas.	6 - 3...	fan.....	137	244
W. M. Gillie.....	Henry Deem.....	No. 2 Gas.	5 - 6...	fan.....	96	245
Geo. Fraser.....	James Fraser.....	No. 5.....	6 - 0...	natural.....	43	246
Geo. Fraser.....	D. B. Howry.....	No. 2 Gas.	5 - 0...	fan.....	14	247
Geo. Fraser.....	D. B. Howry.....	No. 2 Gas.	4 - 0...	fan.....	57	248
Geo. Fraser.....	Chas. W. Burns.....	Eagle No 14.....	8 - 8...	fan.....	46	249
Geo. Fraser.....	W. D. Knight.....	No. 2 Gas.	5 - 0...	fan.....	71	250
W. K. Custred.....	Geo. McDaniel.....	Fire Creek.....	3 - 0...	fan.....	29	251
James E. Carver.....	W. H. Thompson.....	No. 2 Gas.	5 - 0...	2 fans.....	118	252
James E. Carver.....	Alfred Carver.....	No. 5.....	7 - 0...	natural.....	52	253
W. A. Jones.....	Calvin Morris.....	Eagle No 14.....	2 - 2...	furnace.....	69	254
T. A. Bartlam.....	L. M. Waters.....	No. 1.....	3 - 2...	fan.....	26	255
T. A. Bartlam.....	L. M. Waters.....	No. 2 Gas.	5 - 0...	fan.....	19	256
T. A. Bartlam.....	J. H. Kirby.....	No. 5.....	6 - 0...	natural.....	64	257
Enoch Carver.....	John E. Carver.....	No. 5.....	7 - 0...	furnace.....	40	258
Enoch Carver.....	John E. Carver.....	Eagle No 14.....	2 - 2...	fan.....	259	259
Enoch Carver.....	John E. Carver.....	Eagle No 14.....	2 - 2...	fan.....	260	260
Enoch Carver.....	John E. Carver.....	Eagle No 14.....	2 - 2...	fan.....	163	261
Enoch Carver.....	John E. Carver.....	No. 2 Gas.	3 - 10...	fan.....	262	262
Enoch Carver.....	John E. Carver.....	No. 2 Gas.	3 - 10...	fan.....	263	263
D. T. Evans.....	John I. Absalom.....	Powellton.....	5 - 8...	fan & nat.	135	264
D. T. Evans.....	John I. Absalom.....	Powellton.....	5 - 8...	natural.....	17	265
D. T. Evans.....	J. W. Green.....	Eagle No 13.....	3 - 8...	natural.....	43	266
R. J. Stegall.....	Tom Toney.....	No. 2 Gas.	5 - 0...	natural.....	57	267
R. J. Stegall.....	John Eads.....	No. 2 Gas.	4 - 6...	natural.....	45	268
R. J. Stegall.....	Tom Toney.....	No. 1.....	2 - 10...	natural.....	13	269
R. J. Stegall.....	J. W. Wedgwood.....	No. 5.....	6 - 0...	natural.....	18	270
W. A. Carver.....	Ed. Forbes.....	No. 2 Gas.	6 - 0...	fan.....	48	271
W. A. Carver.....	Ed. Forbes.....	No. 2 Gas.	6 - 0...	furnace.....	28	272
W. A. Carver.....	R. A. Hemmings.....	No. 2 Gas.	4 - 0...	furnace.....	28	273
W. A. Carver.....		No. 2 Gas.				274
R. C. Taylor.....	James A. Martin.....	No. 2 Gas.	7 - 9...	fan.....	411	275
R. C. Taylor.....	James A. Martin.....	No. 2 Gas.	7 - 9...	furnace.....		276
W. N. Page, Gen. Mgr.	Wm. Dooley.....					277
H. B. Clarkson.....	Thomas Toler.....	Sewell.....	3 - 2...	fan.....	81	278
T. C. Beury.....	Richard Seymour.....	Sewell.....	3 - 0...	fan.....	41	279
T. C. Beury.....	Richard Seymour.....	Sewell.....	3 - 0...	fan.....	36	280
James D. Boone.....	Val Bachman.....	Sewell.....	3 - 2...	furnace.....	51	281
M. W. Brellahan.....	L. D. Rhodes.....	Sewell.....	3 - 4...	furnace.....	44	282
H. D. Gast.....	John Riley.....	Sewell.....	3 - 10...	fan.....	131	283
H. D. Gast.....	John Rhodes.....	Sewell.....	2 - 6...	furnace.....	26	284
George Krebbs, G. Mgr.		Sewell.....				285
H. P. Thomas.....	John Thomas.....	+Sewell.....	3 - 4...	furnace.....	60	286
Fred R. Raven.....	H. E. McBrayer.....	+Nuttall.....	3 - 10...	fan.....	74	287
Fred R. Raven.....	J. W. Small.....	Nuttall.....	3 - 8...	fan.....	22	288
J. A. Boone.....	W. E. Cody.....	Nuttall.....	4 - 0...	fan.....	75	289
W. F. Boone.....	P. A. Ohlinger.....	Nuttall.....	3 - 8...	natural.....	37	290

+Nuttall and Sewell are different names for the same seam.

**DIRECTORY OF THE MINES IN THE STATE OF WEST VIRGINIA FOR THE YEAR ENDING
JUNE 30th, 1904.**

No.	COUNTY.	Name of Mine.	Kind of opening.	Name of Company.	Postoffice Address.
291	Fayette	Ballinger No. 1.	drift	Ballinger Coal Co.	Nuttallburg
292	"	Ballinger No. 2.	drift	Ballinger Coal Co.	Nuttallburg
293	"	Blume	drift	Blume Coal & Coke Co.	Lookout
294	"	Smokeless	drift	Smokeless Coal Co.	Winona
295	"	Dubree	drift	Rothwell Coal Co.	Dubree
296	"	Quarrier (suspended)	drift	Rothwell Coal Co.	Dubree
297	"	North Side	drift	Victoria Coal & Coke Co.	Caperton
298	"	South Side	drift	Victoria Coal & Coke Co.	Caperton
299	"	Elverton	drift	Chapman Iron, Coal & Coke Co.	Elverton
300	"	Cliff Top	drift	Longdale Iron Co.	Sewell
301	"	*Pennsylvania	drift	Pennsylvania & New River C. & C. Co.	Fire Creek
302	"	Canard	drift	The New River Smokeless Coal Co.	Rush Run
303	"	Brooklyn	drift	The New River Smokeless Coal Co.	Rush Run
304	"	Red Ash	drift	The New River Smokeless Coal Co.	Rush Run
305	"	Rush Run	drift	The New River Smokeless Coal Co.	Rush Run
306	"	Sun No. 1.	slope	The New River Smokeless Coal Co.	Rush Run
307	"	Sun No. 2.	shaft	The New River Smokeless Coal Co.	Rush Run
308	"	Fire Creek	drift	Fire Creek Coal & Coke Co.	Fire Creek
309	"	Echo	drift	Echo Coal & Coke Co.	Beury
310	"	Thurmond	drift	The Thurmond Coal Co.	Concho
311	"	Ersktue	drift	The Thurmond Coal Co.	Concho
312	"	Stone Cliff	drift	Beury Coal & Coke Co.	Stone Cliff
313	"	Big Bend	drift	Big Bend Coal Co.	Dimmock
314	"	Beechwood No. 1.	drift	The Beechwood Coal & Coke Co.	Claremont
315	"	Beechwood No. 2.	drift	The Beechwood Coal & Coke Co.	Claremont
316	"	Alaska	drift	Alaska Coal & Coke Co.	Claremont
317	"	Slater	2 drifts	New River Colliery Co.	Thayer
318	"	Buffalo No. 1.	drift	Ephraim Creek Coal & Coke Co.	Thayer
319	"	Slater No. 2	drift	Ephraim Creek Coal & Coke Co.	Thayer
320	"	Harvey No. 1.	drift	Harvey Coal & Coke Co.	Harvey
321	"	Harvey No. 2.	drift	Harvey Coal & Coke Co.	Harvey
322	"	Prudence	drift	Prudence Coal Co.	Prudence
323	"	Star	drift	The Star Coal & Coke Co.	Red Star
324	"	Collins No. 1.	slope	Collins Colliery Co.	Glen Jean
325	"	Collins No. 2.	slope	Collins Colliery Co.	Glen Jean
326	"	Whipple	shaft	Whipple Colliery Co.	Whipple
327	"	Derryhale	drift	McKell Coal & Coke Co.	Glen Jean
328	"	Kilsyth	drift	McKell Coal & Coke Co.	Glen Jean
329	"	Laura	drift	Laura Mining Co.	Glen Jean
330	"	Dunloop No. 1.	drift	Dunn Loop C. & C. Co.	Dunloop
331	"	Dunloop No. 2.	drift	Dunn Loop Coal & Coke Co.	Dunloop
332	"	*Thomas	drift	Newlyn Coal & Coke Co.	Thurmond
333	"	*Dunglen	drift	Dunglen Coal & Coke Co.	Thurmond
334	"	Turkey Knob	drift	The Turkey Knob Coal Co.	Macdonald
335	"	Macdonald	drift	Macdonald Colliery Co.	Macdonald
336	"	Sugar Creek	slope	Sugar Creek Coal & Coke Co.	Macdonald
337	"	Mt. Hope	drift	Mt. Hope Coal Co.	Mt. Hope
338	"	*Price Hill	slope	Price Hill Colliery Co.	Macdonald
339	"	Scarbro No. 1.	shaft	The White Oak Fuel Co.	Scarbro
340	"	Scarbro No. 2.	shaft	The White Oak Fuel Co.	Scarbro
341	"	Carlisle	shaft	The White Oak Fuel Co.	Scarbro
342	"	Oakwood	shaft	The White Oak Fuel Co.	Scarbro
343	"	*Wingrove	shaft	The White Oak Fuel Co.	Scarbro
344	"	*Parral	drift	The Stuart Colliery Co.	Parral
345	"	*Parral	shaft	The Stuart Colliery Co.	Parral
346	"	*Stuart	shaft	The Stuart Colliery Co.	Parral

*Just being opened.

**NAME OF SUPERINTENDENT, NAME OF MINE BOSS, SEAMS
WORKED AND THICKNESS, AND TOTAL NUMBER
OF INSIDE EMPLOYEES.**

Name of Superintendent.	Name of Mine Boss.	Name of coal bed worked.	Thickness. Ft. In.	Kind of ventilation.	Total inside employees.	No.
Geo. Holland.....	John Ohlinger.....	Nuttall.....	3 - 10.	furnace	53	291
Geo. Holland.....	Fred Ohlinger.....	Nuttall.....	3 - 9	natural	23	292
D. W. Boone.....	Thomas Stead.....	Red Ash.....	3 - 10	fan	115	293
J. D. Campbell.....	W. R. Hall.....	Nuttall.....	4 - 0	natural	72	294
H. H. Rothwell.....	Chas. Higgins.....	Nuttall.....	3 - 8	furnace	54	295
H. H. Rothwell.....	.....	Nuttall.....	3 - 6	.....	.....	296
F. H. Steinbrecher.....	Joseph Can.....	Sewell.....	4 - 0	furnace	72	297
F. H. Steinbrecher.....	B. F. Ellis.....	Sewell.....	4 - 3	fan	125	298
W. K. Custed.....	J. H. Long.....	Fire Creek.....	3 - 5	fan	66	299
J. A. M. Tappin.....	W. L. Herndon.....	Fire Creek.....	3 - 0	natural	133	300
.....	.....	Fire Creek.....	.....	.....	.....	301
John Laing.....	J. L. Perfater.....	Sewell.....	4 - 0	natural	30	302
John Laing.....	James M. Laing.....	Sewell.....	4 - 0	fan	48	303
John Laing.....	James Nisbet.....	Fire Creek.....	6 - 0	fan	81	304
John Laing.....	Wm. Laing.....	Fire Creek.....	5 - 6	fan	94	305
James Laing.....	James Martin.....	Sewell.....	5 - 6	fan	135	306
James Laing.....	James Martin.....	Sewell.....	5 - 6	.....	80	307
G. H. Caperton.....	Zeb Arrington.....	Fire Creek.....	3 - 6	natural	63	308
H. B. Beury.....	W. C. Rowe.....	Fire Creek.....	4 - 0	fan	125	309
G. H. Caperton.....	Otho Price.....	Sewell.....	4 - 6	fan & nat.	97	310
G. H. Caperton.....	B. F. Dorsey.....	Fire Creek.....	4 - 6	furnace	40	311
J. H. Boyd.....	Pat. McQuade.....	Fire Creek.....	3 - 0	furnace	70	312
J. H. Dempsey.....	J. H. Dempsey.....	Fire Creek.....	4 - 0	furnace	41	313
C. C. Beury.....	R. B. Hanna.....	Fire Creek.....	4 - 0	fan	80	314
C. C. Beury.....	R. B. Hanna.....	Fire Creek.....	4 - 0	natural	30	315
Geo. Lawton.....	S. M. Peters.....	Fire Creek.....	4 - 0	natural	50	316
J. H. Boyd.....	Richard Seymour.....	Fire Creek.....	3 - 0	natural	26	317
Henry Brooke.....	Peter McQuade.....	Fire Creek.....	4 - 0	fan	134	318
Henry Brooke.....	Peter McQuade.....	Fire Creek.....	4 - 0	.....	.....	319
F. E. Walker.....	J. A. McCallister.....	Sewell.....	4 - 11	fan	250	320
F. E. Walker.....	J. A. McCallister.....	Sewell.....	4 - 11	fan	.....	321
H. A. Moseley.....	W. L. Williamson.....	Sewell.....	5 - 6	fan	161	322
Geo. W. Jones.....	David Evandoll.....	Sewell.....	5 - 0	fan	164	323
Geo. Wolfe.....	Adam Lindley.....	Sewell.....	4 - 6	fan	350	324
Geo. Wolfe.....	Adam Lindley.....	Sewell.....	4 - 6	fan	.....	325
Geo. P. Daniels.....	Robert Watson.....	Sewell.....	5 - 0	fan	90	326
Thos. Nichol.....	Wm. Robertson.....	Sewell.....	5 - 6	fan	150	327
Thos. Nichol.....	Thos. A. Lewis.....	Sewell.....	5 - 9	furnace	250	328
E. A. Trevor.....	A. L. Nelson.....	Sewell.....	5 - 6	furnace	50	329
J. B. McGuffin.....	A. P. Gibson.....	Sewell.....	5 - 6	furnace	85	330
J. B. McGuffin.....	A. P. Gibson.....	Sewell.....	5 - 6	fan	120	331
Edward Thomas.....	.....	Fire Creek.....	.....	.....	.....	332
Leo Shaffer.....	.....	Sewell.....	.....	.....	.....	333
D. F. Settle.....	Fred Wolf & Thos. Boyd.....	Sewell.....	4 - 11	fan	60	334
Samuel Dixon, Gen. Mgr.....	V. A. Miller.....	Sewell.....	5 - 0	fan	173	335
Samuel Dixon, Gen. Mgr.....	F. L. Rainey.....	Sewell.....	5 - 9	fan	140	336
A. P. Bailey.....	A. P. Bailey.....	Loup Cr'k.....	4 - 6	natural	2	337
J. W. Wilson.....	R. Brabban.....	Sewell.....	5 - 6	fan	174	338
J. W. Wilson.....	C. W. Carman.....	Sewell.....	5 - 0	fan	30	340
S. Dixon, Gen. Mgr.....	W. B. Nisbett.....	Sewell.....	5 - 0	fan	88	341
S. Dixon, Gen. Mgr.....	Wm. Ellis.....	Sewell.....	5 - 0	fan	18	342
S. Dixon, Gen. Mgr.....	D. M. Rosser, sinker.....	.....	.....	.....	.....	343
J. P. Davis.....	David Lindsay.....	Eagle.....	3 - 7	fan	.....	344
J. P. Davis.....	David Lindsay.....	Sewell.....	4 - 6	fan	.....	345
J. P. Davis.....	David Lindsay.....	Sewell.....	4 - 6	fan	.....	346

DIRECTORY OF THE MINES IN THE STATE OF WEST VIRGINIA FOR THE YEAR ENDING
JUNE 30th, 1904.

No.	COUNTY.	Name of Mine.	Kind of opening.	Name of Company.	Postoffice Address.
347	Fayette	Big Q	drift	Quinnimont Coal Co	Quinnimont
348	"	Lick Branch	drift	Quinnimont Coal Co	Quinnimont
349	"	Glendale	drift	Glendale Colliery Co	Lawton
350	"	Robins	drift	Robins Coal Co	Quinnimont
351	"	Laurel Creek	drift	Laurel Creek Coal Co	Quinnimont
352	"	Greenwood No. 1	drift	Greenwood Coal & Coke Co	Lawton
353	"	Greenwood No. 2	drift	Greenwood Coal & Coke Co	Lawton
354	"	Hemlock Hollow	drift	Hemlock Hollow C. & C. Co	Lawton
355	"	*Excelsior	drift	Excelsior Colliery Co	Lawton
356	"	Rend No. 1	drift	W. P. Rend	Rend
357	"	Rend No. 2	drift	W. P. Rend	Rend
358	"	Rend No. 3	drift	W. P. Rend	Rend
359	"	Rend No. 4	drift	W. P. Rend	Rend
360	"	Rend No. 5	drift	W. P. Rend	Rend
361	"	Gamoca	drift	Gamoca Coal Co	Gamoca
362	"	Deitz	drift	Deitz Colliery Co	Wyndal
363	"	Lynchburg	drift	Lynchburg Colliery Co	Vanetta
364	Nicholas	Bell Creek	drift	Bell Creek Coal Co	Belva
365	"	No. 8	drift	Raven Coal & Coke Co	Vaughan
366	"	Cambria	drift	The Cambria Mining Co	Cambria
367	"	Mt. Carmel	drift	Mt. Carmel Coal & Coke Co	Cambria
368	"	National	drift	The National Coal & Coke Co	Belva
369	"	*Arminius	drift	Arminius Coal & Coke Co	Scottford
370	"	*Greendale	drift	Greendale Colliery Co	Vaughan
371	Raleigh	Royal	drift	The New River Smokeless Coal Co	Rush Run
372	"	Lanark No. 1	drift	The New River Smokeless Coal Co	Rush Run
373	"	Lanark No. 2	drift	The New River Smokeless Coal Co	Rush Run
374	"	Raleigh No. 1	drift	Raleigh Coal & Coke Co	Raleigh
375	"	Raleigh No. 2	drift	Raleigh Coal & Coke Co	Raleigh
376	"	Raleigh No. 4	drift	Raleigh Coal & Coke Co	Raleigh
377	"	Raleigh No. 3	drift	Raleigh Coal & Coke Co	Raleigh
378	"	Wright No. 1	drift	The Wright Coal & Coke Co	Wright
379	"	Pack No. 2	drift	The Wright Coal & Coke Co	Wright
380	"	Piney No. 1	drift	Piney Colliery	Stanaford
381	"	Davis No. 2	drift	Piney Colliery	Stanaford
382	"	Knob Branch	drift	Piney Colliery	Stanaford
383	"	Terry	drift	Stonewall Coal & Coke Co	Stonewall
384	"	Stonewall No. 2	drift	Stonewall Coal & Coke Co	Stonewall
385	"	Stonewall No. 3	drift	Stonewall Coal & Coke Co	Stonewall
386	"	*Beckley	slope and shaft	Beckley Coal & Coke Co	Beckley
387	"	Mabscott	drift	Mabscott Coal & Coke Co	Mabscott
388	"	Oswald	drift	McKell Coal & Coke Co	Glen Jean
389	"	*Graham	drift	McKell Coal & Coke Co	Glen Jean

FOURTH DISTRICT, SAMUEL S. COOPER, INSPECTOR.

390	Logan	*Monitor	drift	The Monitor Coal & Coke Co	Logan
391	"	*Mounts-Fisher	drift	Mounts-Fisher Coal Co	Logan
392	"	*Draper	drift	Draper Coal & Coke Co	Logan
393	"	*Big Creek	drift	Big Creek Coal Co	Logan
394	"	*Island Cr. Nos. 1 & 2	2 drifts	United States Coal & Oil Co	Holden
395	McDowell	Tidewater	drift	The Tidewater Coal & Coke Co	Vivian
396	"	Bottom Creek	drift	Bottom Creek Coal & Coke Co	Vivian
397	"	Peerless	drift	Peerless Coal & Coke Co	Vivian
398	"	Empire	drift	The Empire Coal & Coke Co	Landgraf
399	"	Shawnee	drift	Shawnee Coal & Coke Co	Eckman
400	"	Eureka	drift	Eureka Coal & Coke Co	Eckman
401	"	Pulaski	drift	Pulaski Iron Co	Eckman
402	"	Keystone No. 1	drift	Keystone Coal & Coke Co	Keystone
403	"	Keystone No. 2	drift	Keystone Coal & Coke Co	Keystone

*Just being opened.

NAME OF SUPERINTENDENT, NAME OF MINE BOSS, SEAMS
WORKED AND THICKNESS, AND TOTAL NUMBER
OF INSIDE EMPLOYEES.

Name of Superintendent.	Name of Mine Boss.	Name of coal bed worked.	Thickness. Ft. In.	Kind of ventilation.	Total Inside Employees.	No.
C. B. Helwig	V. E. Sullivan	Fire Creek	4 - 0.	natural	97	347
C. B. Helwig	V. E. Sullivan	Fire Creek	4 - 0.	natural		348
J. H. Boyd	L. G. Dollison	Fire Creek	4 - 2.	natural	39	349
Richard Howells	Richard Howells	Fire Creek	3 - 0.	natural	20	350
J. W. Rowe	Wm. Crickmer	Fire Creek	3 - 10.	fan	65	351
W. A. Brown	Wm. Crickmer	Fire Creek	4 - 0.	natural	150	352
W. A. Brown	Henry C. Peters	Fire Creek	4 - 0.	fan		353
W. A. Brown	A. J. Brown	Fire Creek	4 - 0.	natural	78	354
W. A. Brown	A. J. Brown	Fire Creek	4 - 0.	natural		355
J. N. Schweitzer	Albert Macdonald	Fire Creek	4 - 8.	fan		356
J. N. Schweitzer	Henry Wessell	Sewell	4 - 8.	fan		357
J. N. Schweitzer	A. B. Blosser	Sewell	4 - 8.	fan	368	358
J. N. Schweitzer	A. B. Blosser	Sewell	4 - 8.	fan		359
J. N. Schweitzer	John Shears	Sewell	4 - 8.	fan		360
J. M. Campbell	Wayne Bumpus	No. 2 Gas.	4 - 0.	furnace	59	361
T. A. Dietz	L. D. Moran	No. 2 Gas.	3 - 6.	furnace	40	362
T. A. Dietz	John Tasker	No. 2 Gas.	4 - 6.	furnace	52	363
L. F. Hess	C. G. Wood	Coalburg	4 - 0.	fan	42	364
C. C. Sharp	M. Welch	No. 2 Gas.	4 - 2.	basket	7	365
Wm. J. Jones	John Jones	Coalburg	4 - 8.	furnace	19	366
F. W. Magrady	Charles Green	Coalburg	4 - 9.	furnace	28	367
Chas. Jasper	Clyde Wood	Coalburg	4 - 6.	basket	11	368
G. E. Smith		Coalburg				369
C. C. Sharp						370
John Howald	Chas. Stover	Fire Creek	4 - 0.	natural	60	371
John Howald	M. McGuire	Fire Creek	3 - 0.	natural	58	372
John Howald	David Laing	Sewell	4 - 6.	natural		373
B. A. McClure	Edward Gordon	Fire Creek	4 - 6.	fan		374
B. A. McClure	Edward Gordon	Fire Creek	4 - 6.	fan		375
B. A. McClure	Edward Gordon	Fire Creek	4 - 6.	fan	240	376
B. A. McClure	Edward Zwilling	Fire Creek	4 - 6.	fan		377
W. Gaston Caperton	Wm. Hurt	Fire Creek	3 - 8.	natural	105	378
W. Gaston Caperton	J. A. Davis	Fire Creek	3 - 8.	furnace	37	379
P. J. Riley	John Burns	Fire Creek	4 - 0.	furnace	20	380
P. J. Riley	John Burns	Fire Creek	4 - 0.	furnace	31	381
P. J. Riley	Peter McQuade	Sewell	4 - 6.	furnace	8	382
F. M. Lee	Robert Boyd	Fire Creek	4 - 0.	stack	10	383
F. M. Lee	W. S. Fink	Sewell	5 - 0.	stack		384
F. M. Lee	W. S. Fink	Fire Creek	3 - 0.	stack	41	385
I. Beckel	Frank McHugh	Sewell	5 - 0.	fan		386
J. O. McDowell	M. K. Walker	Sewell	4 - 6.	furnace	105	387
Thos. Nichol	Joseph Harland	Sewell	5 - 9.	furnace	55	388
Thos. Nichol	Joseph Harland	Sewell	5 - 9.	furnace		389
J. E. Barlow	V. H. Lambert	Winifrede	6 - 0.	furnace	16	390
H. S. Gay		Winifrede	4 - 6.			391
Mathew Hall		Winifrede	4 - 0.			392
Jos. Kitchen		Winifrede	4 - 0.			393
E. P. Merrill	H. D. Penman	Winifrede	5 - 6.	furnace		394
Thos. Hustar	Samuel Campbell	Poca. No. 3	6 - 0.	2 fans	179	395
S. W. Patterson	J. H. Cooper	Poca. No. 3	5 - 9.	fan	145	396
R. Y. Luther	Thos. Weldon	Poca. No. 3	6 - 0.	fan	193	397
Wm. D. Ord	T. R. Barrett	Poca. No. 3	5 - 10	fan	220	398
P. P. Flanagan	Chas. Cooney	Poca. No. 3	6 - 4.	fan	100	399
L. E. Tierney	C. G. Hughes	Poca. No. 3	7 - 0.	fan	140	400
C. E. F. Burnley	J. M. Shank	Poca. No. 3	6 - 8.	fan	185	401
J. K. F. Steele	John Murray	Poca. No. 3	6 - 6.	fan	155	402
J. K. F. Steele	George Smith	Poca. No. 3	6 - 6.	fan		403

DIRECTORY OF THE MINES IN THE STATE OF WEST VIRGINIA FOR THE YEAR ENDING
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No.	COUNTY.	Name of Mine.	Kind of opening.	Name of Company.	Postoffice Address.
404	McDowell	Algoma Big Four	drift	Algoma Coal & Coke Co.	Algoma
405	"	Algoma Coal Station	drift	Algoma Coal & Coke Co.	Algoma
406	"	Algoma Piney	drift	Algoma Coal & Coke Co.	Algoma
407	"	Gilliam	drift	Gilliam Coal & Coke Co.	Gilliam
408	"	Rolfe	drift	Rolfe Coal & Coke Co.	Switchback.
409	"	Roanoke	drift	Roanoke Coal & Coke Co.	Worth.
410	"	Indian Ridge	drift	Indian Ridge Coal & Coke Co.	Worth
411	"	Arlington	drift	Arlington Coal & Coke Co.	McDowell.
412	"	Greenbrier	drift	Greenbrier Coal & Coke Co.	McDowell.
413	"	McDowell	drift	McDowell Coal & Coke Co.	McDowell.
414	"	Ashland No. 1.	drift	Ashland Coal & Coke Co.	Ashland
415	"	Ashland No. 2.	drift	Ashland Coal & Coke Co.	Ashland
416	"	Cherokee	drift	Cherokee Colliery Co.	Ashland
417	"	Elk Ridge	drift	Elk Ridge Coal & Coke Co.	Kyle
418	"	Lynchburg	drift	Lynchburg Coal & Coke Co.	Kyle
419	"	Powhatan	drift	Powhatan Coal & Coke Co.	Powhatan
420	"	Upland No. 1.	drift	Upland Coal & Coke Co.	Elkhorn
421	"	Upland No. 2.	drift	Upland Coal & Coke Co.	Elkhorn
422	"	Houston No. 1.	drift	Houston Coal & Coke Co.	Elkhorn
423	"	Houston No. 2.	drift	Houston Coal & Coke Co.	Elkhorn
424	"	Crozer No. 1.	drift	Crozer Coal & Coke Co.	Elkhorn
425	"	Crozer No. 2.	drift	Crozer Coal & Coke Co.	Elkhorn
426	"	Turkey Gap	drift	Turkey Gap Coal & Coke Co.	Ennis
427	"	Norfolk	drift	Norfolk Coal & Coke Co.	Switchback.
428	"	Angle	drift	Norfolk Coal & Coke Co.	Switchback.
429	"	Lick Branch	drift	Norfolk Coal & Coke Co.	Switchback.
430	"	Delta	drift	Norfolk Coal & Coke Co.	Switchback.
431	"	Shamokin	drift	Shamokin Coal & Coke Co.	Switchback.
432	"	Elkhorn	drift	Elkhorn Coal & Coke Co.	Mayberry
433	"	Big Four	slope	Big Four Coal & Coke Co.	Bluefield
434	"	Big Sandy	drift	Big Sandy Coal & Coke Co.	Big Sandy
435	"	Cambridge	drift	Vaughan Coal & Coke Co.	Rodenfield
436	"	Davy-Crockett	drift	Davy-Crockett C. & C. Co.	Hallsville
437	"	Tug River	drift	Tug River Coal & Coke Co.	Marytown
438	"	Twin Branch	drift	Twin Branch Mining Co.	Twin Branch.
439	"	Short Creek	drift	Short Creek Coal & Coke Co.	Hallsville
440	"	West	drift	Pocahontas Collieries Co.	Pocahontas, Va.
441	"	Antler	drift	Antler Coal & Coke Co.	Antler
442	"	Cletus	drift	Cletus Coal & Coke Co.	Hallsville.
443	"	Black Stone	drift	Black Stone Mining Co.	Hallsville.
444	"	No. 1.	2 dfts	United States Coal & Coke Co.	Gary
445	"	No. 2.	drift	United States Coal & Coke Co.	Gary.
446	"	No. 3.	4 dfts	United States Coal & Coke Co.	Gary
447	"	No. 4.	drift	United States Coal & Coke Co.	Gary
448	"	No. 5.	drift	United States Coal & Coke Co.	Gary
449	"	No. 6.	drift	United States Coal & Coke Co.	Gary
450	"	No. 7.	shaft	United States Coal & Coke Co.	Gary
451	"	Maher	drift	Maher Coal & Coke Co.	Twin Branch.
452	"	Flournoy No. 1.	drift	Flournoy Colliery Co.	Hensley.
453	"	Flournoy No. 2.	drift	Flournoy Colliery Co.	Hensley.
454	"	Hensley	drift	Hensley Coal Co.	Hensley.
455	"	Mohawk	drift	Mohawk Coal & Coke Co.	Mohawk
456	"	Welch	drift	Welch Coal & Coke Co.	Welch.
457	"	Hemphill	drift	Welch Coal & Coke Co.	Welch.
458	"	Imo	drift	Oregon Coal Co.	Welch.
459	"	McClaren	drift	Oregon Coal Co.	Welch.
460	"	Zenith Nos. 1 & 2.	2 dfts	Zenith Coal & Coke Co.	Lambert

*NAME OF SUPERINTENDENT. NAME OF MINE BOSS, SEAMS
WORKED AND THICKNESS, AND TOTAL NUMBER
OF INSIDE EMPLOYEES.*

Name of Superintendent.	Name of Mine Boss.	Name of Coal Bed Worked.	Thickness. Ft. In.	Kind of Ven- tilation.	Total Inside Employees.	No.
Wm. J. Beury, Gen. Mgr	A. J. Stewart	Poca. No. 3	6 - 2	fan	160	404
Wm. J. Beury, Gen. Mgr	Levi Bolden	Poca. No. 8	6 - 2	natural		405
Wm. J. Beury, Gen. Mgr	A. J. Stewart	Poca. No. 3	6 - 2	fan		406
P. P. Flanagan	Frank McClosky	Poca. No. 3	6 - 0	fan		407
James E. Jones	J. C. Campbell	Poca. No. 3	5 - 3	fan		408
W. C. Easley	Samuel Ferris	Poca. No. 3	5 - 3	fan	115	409
C. Botsford	W. T. Ailiff	Poca. No. 3	5 - 3	fan	70	410
P. P. Flanagan	Jos. Cooper	Poca. No. 3	5 - 10	fan	85	411
Jairus Collins	C. W. Atkinson	Poca. No. 3	6 - 0	fan	119	412
T. H. Cooper	James W. Devenny	Poca. No. 3	5 - 6	2 fans	177	413
T. J. O'Neill	H. T. Woods	Poca. No. 3	5 - 6	fan	244	414
T. J. O'Neill	Frank Gallagher	Poca. No. 3	5 - 6	2 furnaces		415
Jairus Collins	J. C. Saunders	Poca. No. 3	5 - 6	fan	41	416
L. E. Tierney	H. B. Dalton	Poca. No. 3	6 - 6	fan	120	417
L. E. Tierney	T. W. Fitzsimmons	Poca. No. 3	7 - 0	fan	110	418
L. E. Tierney	A. J. Dalton	Poca. No. 3	7 - 0	2 fans	210	419
John J. Lincoln	J. A. Grantham	Poca. No. 3	7 - 8	fan	170	420
John J. Lincoln	F. C. Ernest	Poca. No. 3	7 - 8	fan	180	421
Benj. Lewis	Chris. Kershaw	Poca. No. 8	8 - 0	fan		422
Benj. Lewis	James Moore	Poca. No. 3	8 - 0	fan	200	423
Samuel Evans	J. R. Bailey	Poca. No. 3	8 - 0	fan		424
Samuel Evans	George Guy	Poca. No. 3	8 - 6	fan	235	425
W. H. McQuail	J. P. Johnson	Poca. No. 3	8 - 6	fan		426
James E. Jones	E. S. Whitehead	Poca. No. 3	7 - 6	fan	314	427
James E. Jones	E. S. Whitehead	Poca. No. 3	7 - 6	fan		428
James E. Jones	J. S. Woodyard	Poca. No. 3	7 - 6	fan	185	429
James E. Jones	J. K. Whitehead	Poca. No. 3	7 - 6	fan	150	430
James E. Jones	H. J. Giles	Poca. No. 3	7 - 6	fan	216	431
R. S. Ord	L. B. Holliday	Poca. No. 3	7 - 3	fan	225	432
S. S. Coffman	J. M. Watt	Poca. No. 3	5 - 8	2 fans	28	433
W. H. Smith	D. M. Woody	Poca. No. 4	3 - 6	fan	59	434
J. R. Vaughan	G. W. Stewart	Poca. No. 4	4 - 0	furnace	42	435
G. A. Barnett	Sid. Yost	Poca. No. 4	3 - 9	furnace	28	436
W. Wood	Thos. Wood	Poca. No. 4	3 - 6	fan	80	437
J. E. Rhodemyre	James McBrayer	Poca. No. 4	3 - 8	furnace	65	438
C. E. Angel	T. N. Daugherty	Poca. No. 4	3 - 5	furnace	19	439
Wm. Leckie	W. Warburton, & M. Cox	Poca. No. 3	9 - 0	fan	28	440
J. W. Thomas	J. T. Fleeman	Poca. No. 4	4 - 0	furnace	40	441
W. B. Honaker	J. H. Bragg	Poca. No. 4	3 - 8	furnace	28	442
W. B. Honaker	S. S. Harris	Poca. No. 4	4 - 0	furnace	72	443
J. R. B. Reis, Gen. Supt.	J. F. Dillon	Poca. No. 3	6 - 0	2 fans	190	444
		Poca. No. 4	5 - 9			
P. J. Tormay	Mike Connelly	Poca. No. 3	6 - 6	fan	135	445
W. C. Mullan	Wm. Devenny	Poca. No. 3	5 - 0	fan	165	446
C. L. Mestrezat	W. A. Lilly	Poca. No. 3	6 - 0	furnace	55	447
C. L. Mestrezat	M. J. Gillespie	Poca. No. 3	7 - 0	furnace	27	448
W. C. Mullan	W. F. Whitt	Poca. No. 3	7 - 0	fan	37	449
W. C. Mullan	W. A. Lilly	Poca. No. 3	7 - 0	furnace	13	450
		Poca. No. 4	6 - 6			
J. E. Rhodemyre	I. J. White	Poca. No. 4	3 - 8	furnace	24	451
C. O. Smith	M. J. Brogan	Poca. No. 4	3 - 6	furnace	19	452
C. O. Smith	John R. White	Poca. No. 4	3 - 6	furnace	35	453
C. O. Smith	M. W. Hyrne	Poca. No. 4	3 - 6	furnace	52	454
W. E. Winter	E. E. Blankenship	Thacker	4 - 8	furnace	56	455
C. A. Deverney	J. J. Brumfield	Poca. No. 4	3 - 4	furnace	15	456
C. A. Devenny	W. H. Devenny	Poca. No. 4	3 - 4	furnace	15	457
F. J. Baxter	J. L. Miller	Poca. No. 4	4 - 8	furnace	33	458
F. J. Baxter	C. B. Webb	Poca. No. 4	4 - 0	furnace	32	459
James Buchannon	Thos. Carney	Poca. No. 3	4 - 0	2 fans	54	460

DIRECTORY OF THE MINES IN THE STATE OF WEST VIRGINIA FOR THE YEAR ENDING
JUNE 30th, 1904.

No.	COUNTY.	Name of Mine.	Kind of opening.	Name of Company.	Postoffice Address.
461	McDowell...	*Page	drift	Page Coal & Coke Co.	Eckman
462	"	*U. G.	2-sha	Middle States Coal Co.	Olmsted
463	"	Helena.	drift	Helena Coal Co.	Hallsville
464	"	*King	drift	King Coal Co.	Vivian
465	Mercer.....	Mill Creek	drift	Mill Creek Coal & Coke Co.	Coopers
466	"	West Side.	drift	Mill Creek Coal & Coke Co.	Coopers
467	"	Coadale	drift	Mill Creek Coal & Coke Co.	Coopers
468	"	Buckeye	drift	Buckeye Coal & Coke Co.	Freeman
469	"	Elkhorn.....	drift	Caswell Creek Coal & Coke Co.	Bramwell
470	"	Hemlock	drift	Caswell Creek Coal & Coke Co.	Bramwell
471	"	Booth-Bowen	drift	Booth-Bowen Coal & Coke Co.	Freeman
472	"	Louisville.....	3 dfts	Louisville Coal & Coke Co.	Goodwill
473	"	Goodwill.....	drift	The Goodwill Coal & Coke Co.	Goodwill
474	"	Pinnacle.....	2 dfts	Pinnacle Coal & Coke Co.	McComas
475	"	Crane Creek No. 1	drift	Crane Creek Coal & Coke Co.	Manning
476	"	Crane Creek No. 2	drift	Crane Creek Coal & Coke Co.	Manning
477	"	Sagamore.....	drift	Sagamore Coal & Coke Co.	Bramwell
478	"	Crystal	drift	Crystal Coal & Coke Co.	Godfrey
479	"	Thomas	drift	The Thomas Coal Co.	McComas
480	"	Yukon	drift	Yukon Coal Co.	Bramwell
481	"	Weyanoke.....	drift	The Weyanoke Coal & Coke Co.	Glatto
482	"	*Spring	drift	Spring Coal Mining Co.	Glatto
483	"	*No. 1	drift	Piedmont Colliery	Widemouth
484	"	*Wenonah	drift	Wenonah Coal & Coke Co.	Hiawatha
485	"	*Hiawatha	drift	Hiawatha Coal & Coke Co.	Hiawatha
486	"	*Smokeless	drift	The Smokeless Coal & Coke Co.	Hiawatha
487	Mingo.....	Camp Branch	drift	Pearl Coal Mining Co.	Dingess
488	"	Pearl	drift	Pearl Coal Mining Co.	Dingess
489	"	Sprigg	drift	Pearl Coal Mining Co.	Dingess
490	"	Rutherford	drift	Red Jacket Coal & Coke Co.	Red Jacket
491	"	Maritime	drift	Red Jacket Coal & Coke Co.	Red Jacket
492	"	Red Jacket	3 dfts	Red Jacket Coal & Coke Co.	Red Jacket
493	"	Lick Fork	drift	Red Jacket Coal & Coke Co.	Red Jacket
494	"	Grapevine	drift	Grapevine Coal Co.	Red Jacket
495	"	Thacker No. 1	drift	Thacker Coal & Coke Co.	Thacker
496	"	Thacker No. 2	drift	Thacker Coal & Coke Co.	Thacker
497	"	Thacker No. 3	drift	Thacker Coal & Coke Co.	Thacker
498	"	*Island Creek	drift	Thacker Coal & Coke Co.	Thacker
499	"	Lynn	drift	Lynn Coal & Coke Co.	Sheppard
500	"	Glen Alum No. 1	drift	Glen Alum Coal Co.	Glen Alum
501	"	Glen Alum No. 2	drift	Glen Alum Coal Co.	Glen Alum
502	"	Winnifrede	drift	Nolan Coal Co.	Nolan
503	"	War Eagle	drift	War Eagle Coal Co.	War Eagle
504	"	Hatfield	drift	Hatfield Colliery Co.	Nolan
505	"	Jackson	drift	Jackson Coal Co.	Nolan
506	"	Mate Creek	drift	Mate Creek Coal Co.	Matewan
507	"	Marvin	drift	Marvin Coal Co.	Matewan
508	"	Pappoose	drift	Pappoose Coal Co.	War Eagle
509	"	Margaret	drift	Margaret Mining Co.	War Eagle
510	"	Star	drift	Star Coal Co.	War Eagle
511	"	Cedar	drift	Cedar Coal Co.	Cedar
512	"	Merrimac	drift	Merrimac Coal & Coke Co.	Merrimac
513	"	*Williamson	drift	Williamson Coal & Coke Co.	Williamson
514	"	Goodman Nos. 1 & 2	2 dfts	Goodman Coal & Coke Co.	Williamson
515	"	Howard	drift	Howard Colliery Co.	Chattaroy
516	"	Chattaroy	drift	Chattaroy Colliery Co.	Chattaroy
517	"	*Buffalo	drift	The Buffalo Collieries Co.	Chattaroy
518	"	Rawl Nos. 1 & 2	2 dfts	Rawl Coal & Coke Co.	Rawl

*Just being opened.

**NAME OF SUPERINTENDENT, NAME OF MINE BOSS, SEAMS
WORKED AND THICKNESS, AND TOTAL NUMBER
OF INSIDE EMPLOYEES.**

Name of Superintendent	Name of Mine Boss.	Name of coal bed worked.	Thickness. Ft. In.	Kind of ventilation.	Total Inside Employees.	No.
Frank C. Lewis, Gen. M						461
Geo Gully.		Poca No. 3	6 - 0			462
C. W. Keister.	Wiley Kemp	Poca No. 4	3 - 0	furnace	29	463
Wm. Steebergen.	Wm. Steebergen.	Poca No. 3	5 - 6			464
T. H. Cooper.	G. L. Smith	Poca No. 3	8 - 0	fan	81	465
T. H. Cooper.	W. L. Pettitt.	Poca No. 3	8 - 0	fan		466
T. H. Cooper.	Thos. Williams.	Poca No. 3	8 - 6	fan		467
J. C. Pack	Thos. Gent.	Poca No. 3	5 - 6	fan	110	468
W. G. Freeman.	Tom Brazeal	Poca No. 3	8 - 0	fan	243	469
W. G. Freeman.	Frank Smith	Poca No. 3	8 - 0	fan		470
Harry Bowen	J. H. Mitchell.	Poca No. 3	7 - 6	fan	111	471
Jairus Collins.	W. H. Adams	Poca No. 3	4 - 5	2 fans	126	472
Philip Goodwill.	R. B. Foy.	Poca No. 3	4 - 8	fan	103	473
Calvin Shockey.	James Dewise	Poca No. 3	4 - 8	2 fans	68	474
Calvin Shockey.	Benj. Cordill	Poca No. 3	4 - 8	fan	85	475
Calvin Shockey.	J. P. Johnson	Poca No. 3	4 - 8	fan		476
Stuart M. Buck.	T. C. Dooley	Poca No. 3	4 - 6	3 fans	114	477
L. N. Buford.	H. J. Reid	Poca No. 3	4 - 6	fan	71	478
W. J. Pritchard.	Harry Taylor	Poca No. 3	4 - 8	fan	90	479
H. M. Meyers.	G. W. Bell	Poca No. 3	8 - 0	natural.	12	480
Clarence T. Starr.	Lawrence Shepard.	Poca No. 3	4 - 6	fan	11	481
W. S. Cope.	Wm. Cook	Poca No. 3	4 - 2	natural.	17	482
E. C. Berkeley.	M. J. Saunders.	Poca No. 3	5 - 3	furnace		483
D. H. Barger, Gen. Mgr	Wm. Winifree	Poca No. 3	4 - 3			484
D. H. Barger, Gen. Mgr	Wm. Winifree	Poca No. 3	4 - 3			485
D. H. Barger, Gen. Mgr		Poca No. 3	4 - 3			486
J. R. Booth.	A. Mitchell	Lo. Kittan	4 - 8	furnace	23	487
J. R. Booth.	John Kerns	Lo Kittan	4 - 6	fan	35	488
J. R. Booth.	J. W. Murphy	Thacker.	4 - 0	furnace	34	489
Henry Brooke.	James Adkins	Thacker.	4 - 6	fan	105	490
S. T. Lambert.	James Maynard	Thacker.	4 - 10	furnace	78	491
Henry Brooke.	Thos. L. Pugh	Thacker.	4 - 6	fan	176	492
S. T. Lambert.	W. R. Wilbur	Thacker.	6 - 10	furnace	87	493
S. T. Lambert.	J. B. Johnson	Thacker.	12 - 0	furnace	77	494
Thos. Griffiths	C. C. Williams	Thacker.	7 - 0	furnace		495
Thos. Griffiths	James Gent	Thacker.	7 - 0	furnace	241	496
Thos. Griffiths	T. A. Burford	Thacker.	7 - 0	furnace		497
Thos. Griffiths		Thacker.	7 - 0	furnace		498
Thos. Griffiths	A. J. Younce	Thacker.	5 - 0	furnace	37	499
C. W. Jones.	Chas. Worden	Thacker.	6 - 2	fan	180	500
C. W. Jones.	W. T. Crum	Thacker.	6 - 2	fan		501
B. Moore.	Albert Mitchell.	Winifrede	3 - 6	2 stacks	24	502
Geo. W. Coffey	W. J. Williams.	Kittan	6 - 0	furnace	83	503
John E. Williams	J. R. Blantom	Winifrede	4 - 0	furnace	39	504
J. W. Mitchell.	G. R. Mitchell.	Winifrede	3 - 8	furnace	25	505
S. Sheln.	W. P. Farne	Thacker	4 - 0	furnace	16	506
J. A. Williams	Geo. Williams.	Thacker	4 - 2	furnace	45	507
Geo. W. Coffey.	John Coffey	Lo. Kittan	6 - 0	furnace	68	508
Geo. W. Coffey.	Geo. Montgomery	Lo. Kittan	6 - 0	furnace	58	509
Geo. W. Coffey.	John Coffey	Lo. Kittan	5 - 6	furnace	45	510
A. A. Mitchell.	E. C. Mitchell	Lo. Kittan	4 - 0	furnace	24	511
John E. Williams.	C. A. McCoy	Thacker	4 - 0	furnace	29	512
W. T. Poole.	Lee Atkinson	Lo. Kittan	4 - 0	furnace	18	513
R. D. Baldwin.	R. D. Baldwin.	Winifrede	5 - 6	furnace	8	514
F. L. Schoew.	John Rueger	& Coalburg	5 - 6			
C. E. Tabor	Winifrede	6 - 0	natural		13	515
S. V. Preston	J. V. Hackworth	Winifrede	6 - 0	natural	7	516
H. C. Jones.	Winifrede	5 - 0				517
	Lo. Kittan	4 - 0	furnace		11	518

DIRECTORY OF THE MINES IN THE STATE OF WEST VIRGINIA FOR THE YEAR ENDING
JUNE 30th, 1904.

FIFTH DISTRICT, JERRY WESTLAKE, INSPECTOR.

No.	COUNTY.	Name of Mine.	Kind of opening.	Name of Company.	Postoffice Address.
519	Barbour	Junior	drift	Davis Colliery Co.	Elkins
520	"	Philippi No. 1.	drift	Philippi Coal Mining Co.	Meriden
521	"	Philippi No. 2.	drift	Philippi Coal Mining Co.	Meriden
522	"	Philippi Nos. 3 & 4.	2 dfts	Philippi Coal Mining Co.	Meriden
523	"	Arden	drift	Tygarts River Coal Co.	Grafton.
524	"	Berryburg	drift	Southern Coal & Transportation Co.	Berryburg
525	"	Laurel Creek	drift	Laurel Creek Coal Co.	Arden
526	"	Century No. 1.	shaft	The Century Coal Co.	Century
527	"	Century No. 2.	drift	The Century Coal Co.	Century
528	"	Valley	drift	Valley Coal & Coke Co.	Lehigh
529	"	Lillian	drift	Freeport Smokeless Coal & Coking Co.	Lillian
530	"	*Pennsylvania.	drift	Pennsylvania Coal & Coke Co.	Belington.
531	"	Candace.	drift	Candace Coal & Coke Co.	Scottdale, Pa.
532	"	Dartmoor No. 1.	slope	Maryland Smokeless Coal Co.	Belington.
533	Grant	Henry No. 22.	shaft	Davis Coal & Coke Co.	Henry
534	"	Henry No. 33.	shaft	Davis Coal & Coke Co.	Henry
535	"	Marion	drift	Marion Coal & Coke Co.	Piedmont.
536	"	Buffalo No. 1.	drift	Buffalo Creek Cumberland Coal Co.	Bayard
537	Mineral	No. 19.	drift	Davis Coal & Coke Co.	Savage
538	"	No. 18.	drift	Davis Coal & Coke Co.	Savage
539	"	No. 8.	2 dfts	Davis Coal & Coke Co.	Savage
540	"	No. 20.	drift	Davis Coal & Coke Co.	Elk Garden.
541	"	No. 9.	drift	Davis Coal & Coke Co.	Elk Garden.
542	"	No. 6.	drift	Davis Coal & Coke Co.	Elk Garden.
543	"	Smith.	drift	Smith Coal Co.	Blaine.
544	"	Virginia	drift	Piedmont & Potomac Coal Co.	Tunnelton.
545	"	Big Vein.	drift	Big Vein Coal Co.	Shaw
546	"	Taylor	drift	Taylor Coal Co.	Emory
547	"	Hampshire	drift	Masteller Coal Co.	Keyser.
548	"	Oakdale.	drift	Abrams Creek Creek Coal & Coke Co.	Blaine.
549	"	Blaine.	drift	Wabash & Potomac Coal Co.	Elkins
550	Preston	Austen No. 1.	drift	Austen Coal & Coke Co.	Austen
551	"	Austen No. 2.	drift	Austen Coal & Coke Co.	Austen
552	"	Newburg.	shaft	Hamilton Coal & Coke Co.	Newburg.
553	"	Gorman No. 1.	drift	Gorman Coal & Coke Co.	Ansten
554	"	Gorman No. 2.	drift	Gorman Coal & Coke Co.	Austen
555	"	Irona No. 1.	drift	Irona Coal Co.	Irona.
556	"	Irona No. 2.	drift	Irona Coal Co.	Irona.
557	"	Tunnelton No. 1.	drift	Merchants Coal Co.	Tunnelton
558	"	Tunnelton Nos. 2 & 3	2 dfts	Merchants Coal Co.	Tunnelton
559	"	Corinth.	drift	Oakland Coal & Coke Co.	Corinth
560	"	Howesville.	drift	Kingwood Coal Co.	Howesville.
561	"	Dixie.	drift	Hite Coal & Coke Co.	Hiorra
562	"	Vulcan.	drift	Orr Coal & Coke Co.	Hiorra
563	"	Victoria No. 1.	drift	Manufacturers Coal & Coke Co.	Independence
564	"	Victoria No. 2.	slope	Manufacturers Coal & Coke Co.	Independence
565	"	Shrader No. 1.	drift	Pennsylvania Cons. Coal Co.	Grafton
566	"	Atlantic No. 1.	drift	Atlantic Coal & Coke Co.	Mildred
567	"	Atlantic No. 2.	drift	Atlantic Coal & Coke Co.	Mildred
568	"	Masontown.	drift	West Virginia Coal Co.	Morgantown
569	Randolph	Coalton.	drift	Davis Colliery Co.	Elkins
570	"	Grassy Run.	drift	Davis Colliery Co.	Elkins
571	"	Harding	drift	Davis Colliery Co.	Elkins
572	"	Weaver No. 1.	drift	Maryland Smokeless C. Co.	Belington
573	"	Weaver No. 2.	drift	Maryland Smokeless C. Co.	Belington
574	"	Weaver No. 3.	drift	Maryland Smokeless C. Co.	Belington

*Just being opened.

**NAME OF SUPERINTENDENT, NAME OF MINE BOSS, SEAMS
WORKED AND THICKNESS, AND TOTAL NUMBER
OF INSIDE EMPLOYEES.**

Name of Superintendent.	Name of Mine Boss.	Name of coal bed worked.	Thick- ness. Ft. In.	Kind of Ven- tilation.	Total inside employees.	No.
A. C. Finley	H. C. Haskins	Freeport..	5 - 0..	fan	89	519
L. J. Sandridge	G. B. Myers	Up. Free	6 - 0..	fan	63	520
L. J. Sandridge	G. B. Myers	Up. Free	6 - 0..	fan		521
L. J. Sandridge	G. B. Myers	Up. Free	6 - 0..	fan		522
L. J. Sandridge	G. B. Myers	Up. Free	6 - 0..	fan		523
John Rowland	John Rowland	Up. Free	6 - 0..	fan	44	
B. D. Edwards	Thomas Smith	Pittsburg.	9 - 6..	fan	257	524
W. S. Brydon	J. H. Ritter	Up. Free	6 - 0..	fire basket	40	525
J. C. Ward	Edward Williams	Redstone	5 - 8..	fan	183	526
J. C. Ward	Patrick Woods	Redstone	5 - 8..	furnace	16	527
F. A. Coleman	Chas. Cronk	Up. Free	6 - 10..	fan	28	528
W. A. Cox	W. A. Cox	Up. Free	6 - 6..	furnace...	17	529
Harry Wetzel	Edmund Pearson	Up. Free	7 - 0..	natural	12	530
W. P. Hurst	Wm. Kooser	Freeport	8 - 0..	fire basket	12	531
T. E. Byrnes	John Goff	Freeport	5 - 0..	furnace	23	532
James G. Boyd	John Ambrose	Up. Free	5 - 0..	fan	96	533
James G. Boyd	Geo. Bond	Lo. Kittan	7 - 0..	fan	59	534
John Jose	C. C. Chinenworth	Up. Free	4 - 4..	air shaft	18	535
Richard Waddell	Richard Waddell	Lo. Kittan	7 - 3..	furnace	32	536
O. Tibbets	Joe Tibbets	Lo. Kittan	5 - 8..	fan	4	537
O. Tibbets	Joe Tibbets	Lo. Kittan	5 - 8..	natural	25	538
O. Tibbets	Louis Grant	Pittsburg.	12 - 0..	natural	31	539
Lee Ott	R. S. Coleman	Tyson...	6 - 0..			
Lee Ott	J. E. Ott	Freeport	5 - 0..	furnace	32	540
Lee Ott	J. E. Ott	Pittsburg.	12 - 6..	natural	64	541
Lee Ott	F. Wilson	Pittsburg.	13 - 0..	natural	166	542
R. A. Smith	W. D. Walker	6 ft.	6 - 0..	fan	34	543
B. W. Snider	Edward Ack	6 ft.	4 - 0..	furnace	44	544
C. F. Jordan	John Henry	Pittsburg.	12 - 0..	natural	29	545
Wm. Taylor	Wm. Taylor	Freeport	4 - 4..	natural	10	546
M. Masteller	Henry Byer	Kittan	4 - 0..	fan	83	547
A. P. Brady	Thos. Robinson	Up. Free	4 - 6..	furnace	22	548
A. D. Gillespie	H. B. Jones	Up. Free	4 - 6..	stack	22	549
F. W. Horschler	W. R. Murphy	Up. Free	4 - 6..	fan	60	550
F. W. Horschler	G. R. Cook	Up. Free	4 - 6..	fan	49	551
R. D. Wilson	John Humphrey	Up. Free	4 - 4..	fan	87	552
E. M. Kenly	D. M. Harr	Up. Free	4 - 0..	furnace	8	553
E. M. Kenly	D. M. Harr	Up. Free	4 - 6..	fan	55	554
Ernest B. Truax	Ray Spencer	Up. Free	4 - 8..	fan	117	555
Ernest B. Truax	Ray Spencer	Up. Free	4 - 8..	furnace	117	556
D. R. Phillips	Geo. Cummings, Sr	Up. Free	4 - 6..	furnace	73	557
D. R. Phillips	W. B. Edwards	Up. Free	4 - 6..	fan	264	558
S. H. Jordan	Geo. W. Watson	Up. Free	4 - 0..	fan	88	559
V. E. Gocke	Adam Gross	Lo. Free	4 - 6..	furnace	72	560
B. M. Hite	Alf. Fortney	Freeport	4 - 6..	furnace	30	561
J. M. Orr	B. S. La Rue	Up. Free	4 - 6..	fan	68	562
W. H. Kramer	John H. La Rue	Lo. Kittan	4 - 6..	fan	39	563
W. H. Kramer	John H. La Rue	Lo. Kittan	4 - 2..	fan	16	564
W. F. Harvey	C. L. Fortney	Kittan	5 - 6..	fan	55	565
E. B. Truax	Harry Kallaway	Up. Free	4 - 7..	fan	100	566
E. B. Truax	Harry Kallaway	Up. Free	4 - 7..	furnace	100	567
James Carter	James Griffith	Up. Free	4 - 0..	furnace	45	568
A. C. Finley	David Stoddard	Up. Free	7 - 0..	furnace	142	569
A. C. Finley	R. D. Edwards	Freeport	7 - 0..	natural	24	570
A. C. Finley	A. C. Davis	Up. Free	6 - 6..	fan	100	571
T. E. Byrnes	James Stewart	Up. Free	8 - 10..	fan	95	572
T. E. Byrnes	J. L. Thomas	Up. Free	8 - 10..	fan	61	573
T. E. Byrnes	Wm. Barrick	Up. Free	8 - 0..	natural	13	574

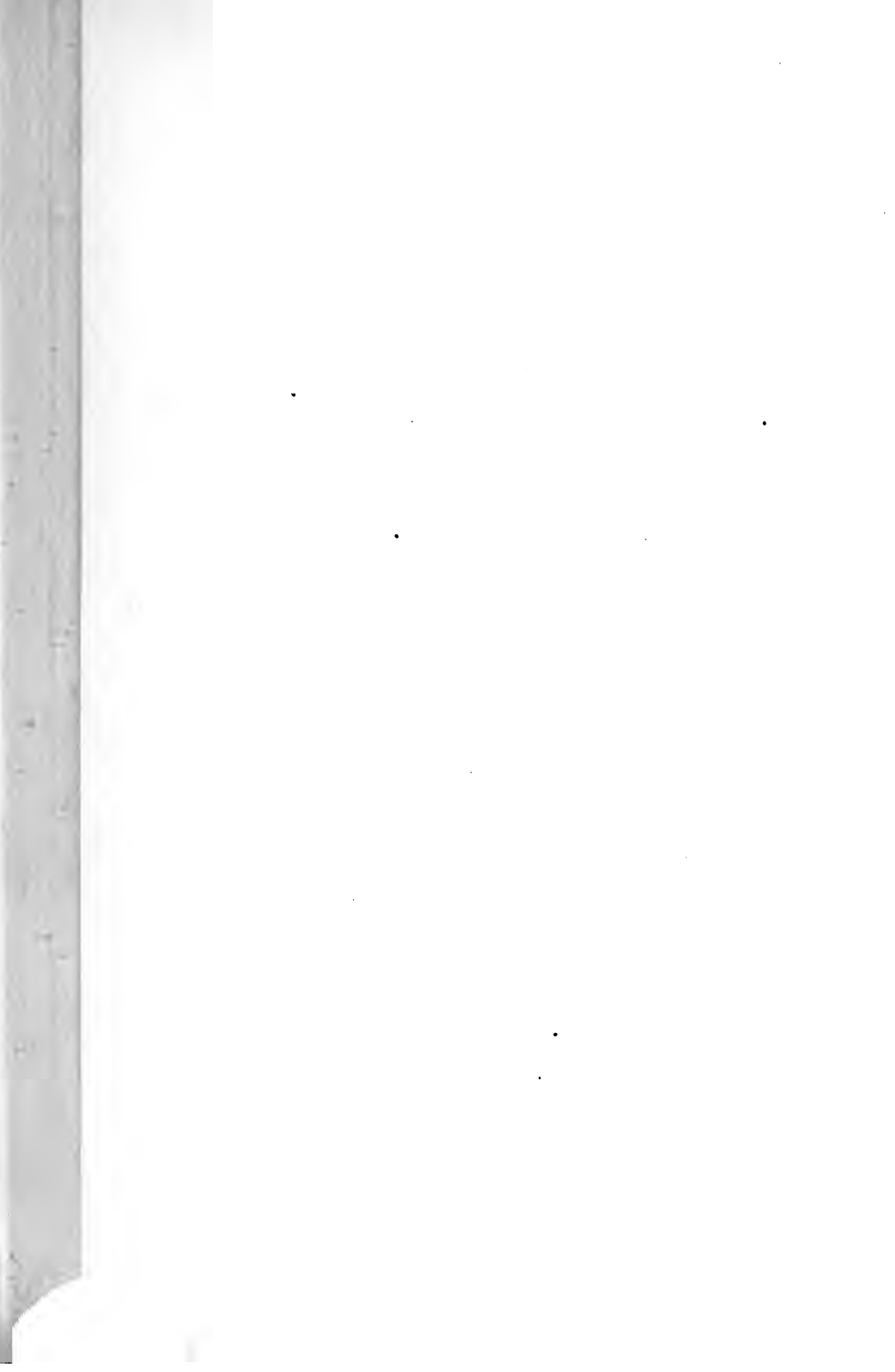
**DIRECTORY OF THE MINES IN THE STATE OF WEST VIR-
GINIA FOR THE YEAR ENDING
JUNE 30th, 1904.**

No.	COUNTY.	Name of Mine.	Kind of open- ing.	Name of Company.	Postoffice Address.
575	Randolph.	Leiter No. 1	drift	Maryland Smokeless C. Co.	Belington.
576	"	Klondyke	drift	Ritter Coal Co.	Mable.
577	Taylor	Sandlick	drift	Grafton Coal & Coke Co.	Grafton.
578	"	Flemington	drift	The Flemington C. & C. Co.	Flemington.
579	"	No. 41	drift	Davis Coal & Coke Co.	Simpson.
580	"	Foster	drift	L. B. Brydon.	Grafton.
581	"	Rosement	drift	Rosement Coal Co.	Tyrconnell.
582	"	T. B. Davis.	drift	Davis-Brydon Coal Co.	Grafton.
583	Tucker	No. 23.	drift	Davis Coal & Coke Co.	Thomas.
584	"	No. 34.	shaft	Davis Coal & Coke Co.	Thomas.
585	"	No. 25.	drift	Davis Coal & Coke Co.	Thomas.
586	"	No. 35.	drift	Davis Coal & Coke Co.	Thomas.
587	"	No. 36.	drift	Davis Coal & Coke Co.	Thomas.
588	"	No. 37.	drift	Davis Coal & Coke Co.	Thomas.
589	"	Douglas No. 1.	drift	Cumberland Coal Co.	Albert.
590	"	Douglas No. 3.	drift	Cumberland Coal Co.	Albert.
591	"	Douglas No. 4.	drift	Cumberland Coal Co.	Albert.
592	"	*Douglas No. 5.	drift	Cumberland Coal Co.	Albert.
593	"	Beacon	drift	Beacon Coal & Coke Co.	Davis.

*Just being opened.

*NAME OF SUPERINTENDENT, NAME OF MINE BOSS, SEAMS
WORKED AND THICKNESS, AND TOTAL NUMBER
OF INSIDE EMPLOYEES.*

Name of Superintendent.	Name of Mine Boss.	Name of coal bed worked.	Thickness. Ft. In.	Kind of ven-tilation.	Total inside employees.	No.
T. E. Byrnes.....	David Brown.....	Freeport..	5 - 0..	furnace...	20	575
D. F. McMullen.....	Andrew Hogg.....	Freeport..	10 - 0..	natural...	17	576
J. W. Fahey.....	Geo. Adams.....	Pittsburg..	7 - 6..	natural...	35	577
J. W. Davidson.....	G. R. W. Johnson.....	Pittsburg..	9 - 0..	fan.....	58	578
J. C. Reardon.....	John McDonnell.....	Pittsburg..	7 - 6..	furnace...	78	579
L. B. Brydon.....	W. J. Phillips.....	Pittsburg..	8 - 6..	natural...	14	580
J. W. Fahey.....	Frank Savage.....	Pittsburg..	8 - 2..	natural...	72	581
Wm. Daily.....	Thos. A. Fleming.....	Pittsburg..	8 - 6..	furnace...	81	582
L. S. McDowell.....	H. G. Smith.....	Up. Free..	6 - 0..	fan.....	271	583
L. S. McDowell.....	Wm. P. Cunningham.....	Kittan.....	6 - 0..	fan.....	122	584
L. S. McDowell.....	Geo. L. Campbell.....	Up. Free..	6 - 0..	fan.....	101	585
L. S. McDowell.....	T. J. Kilroy.....	Kittan.....	6 - 0..	fan.....	41	586
L. S. McDowell.....	W. J. Christopher.....	Kittan.....	6 - 0..	fan.....	104	587
L. S. McDowell.....	W. P. Reeves.....	Kittan.....	6 - 0..	fan.....	130	588
John B. Jenkins.....	Geo. Jenkins.....	Kittan.....	6 - 0..	fan.....	40	589
John B. Jenkins.....	James Christopher.....	Kittan.....	6 - 0..	furnace...	56	590
John B. Jenkins.....	James Christopher.....	Kittan.....	6 - 0..	furnace...	43	591
John B. Jenkins.....	James Christopher.....	Kittan.....	6 - 0..	furnace...	502	592
H. M. Van Zandt.....	F. Bell.....	Kittan.....	8 - 0..	furnace...	50	593



ACCIDENTS.

TABLE SHOWING THE NUMBER OF FATAL AND NON-FATAL ACCIDENTS, IN THE STATE, AND THEIR CAUSES, BY COUNTIES.—Continued.

(F. Means Fatal; N. F. Non-Fatal.)

COUNTY.	Steam pipe ex- plored.		Electrocuted.		Monitor.		Struck by lever.		Struck by tim- bers.		Struck by wood en rail.		Mine door.		Fell down shaft.		Loose coal.		Electric pump.		By animals.		Iron rails fell on him.		Tiptoe knocked down.		Totals.		Grand Totals.
	F.	N. F.	F.	N. F.	F.	N. F.	F.	N. F.	F.	N. F.	F.	N. F.	F.	N. F.	F.	N. F.	F.	N. F.	F.	N. F.	F.	N. F.	F.	N. F.	F.	N. F.	F.	N. F.	
Brooke.....	1																												1
Hancock.....																													
Harrison.....																													
Marion.....																													
Menongalia.....																													
Marshall.....																													
Clay.....																													
Kanawha.....																													
Putnam.....																													
Fayette.....																													
Nicholas.....																													
Raleigh.....																													
McDowell.....																													
Mercer.....																													
Mingo.....																													
Barbour.....																													
Grant.....																													
Mineral.....																													
Presiden.....																													
Randolph.....																													
Taylor.....																													
Tucker.....																													
Totals.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	1	1	1	3	1	1	1	1	2	140	211	351	

COMPARATIVE STATEMENT OF THE NUMBER OF MEN EMPLOYED, MEN KILLED, AND THE PRODUCTION OF COAL FROM 1883 TO 1904, INCLUSIVE (COMMERCIAL MINES).

FOR YEAR ENDING	No. of inside em- ployees.	No. of outside employees.	Total employes (excluding coke men).	Killed by falls of coal, slate and roof.	Killed by mine cars.	Killed by explo- sions.	Killed by other causes.	Total killed.	Total tons of coal mined (tons of 2,240 lbs).	Tons mined for each inside em- ployee.	Tons mined for each person killed inside.	No. of persons killed inside for every 1,000 in- side employes.	No. inside em- ployees for every person killed inside.
December 31, 1883.	5,343	1,031	6,394	17	8	3	.....	20	2,805,565	535	147,661	3.55	281
December 31, 1884.	4,627	1,724	6,351	16	4	3	.....	23	2,901,642	627	150,404	3.04	274
December 31, 1885.	5,496	1,903	7,399	4	2	39	3	48	3,008,091	528	173,024	7.23	138
December 31, 1886.	6,081	1,181	7,262	27	2	.....	.....	31	3,213,093	799	187,824	4.26	224
From January 1, 1887 to June 30, 1888.	7,289	1,187	8,476	.....	.....	.....	.....	.....	5,809,223	558	415,189	1.41	706
June 30, 1889.	7,764	1,824	9,588	9	.....	.....	.....	13	4,966,859	615	236,168	2.61	382
June 30, 1890.	9,173	1,497	10,670	21	2	.....	.....	23	5,643,946	690	251,064	2.78	359
June 30, 1891.	10,454	2,989	13,443	22	4	.....	.....	26	7,251,450	690	222,216	2.90	336
June 30, 1892.	11,776	2,118	13,894	27	6	.....	.....	33	7,777,570	690	145,642	4.71	212
June 30, 1893.	14,204	1,096	15,300	54	8	.....	.....	62	9,758,064	690	171,419	3.50	285
June 30, 1894.	15,652	1,922	17,574	49	6	.....	.....	55	9,428,065	691	124,968	4.73	211
June 30, 1895.	16,652	1,896	18,548	51	12	.....	.....	63	11,957,468	591	203,818	2.86	349
June 30, 1896.	20,257	1,814	22,071	48	8	.....	.....	56	11,957,468	591	124,968	3.51	284
June 30, 1897.	17,069	2,047	19,116	47	7	.....	.....	54	11,571,900	675	102,965	4.02	244
June 30, 1898.	18,532	2,148	20,680	67	12	.....	.....	79	14,154,865	781	186,248	4.08	248
June 30, 1899.	19,634	2,461	22,095	64	13	.....	.....	77	16,100,150	820	203,799	6.09	164
June 30, 1900.	21,820	2,815	24,635	61	15	.....	.....	76	18,736,911	858	140,879	4.70	212
June 30, 1901.	25,693	3,487	29,180	78	20	.....	.....	98	20,115,991	782	166,247	3.96	252
June 30, 1902.	27,720	4,023	31,743	76	23	.....	.....	99	22,179,083	858	210,718	4.82	207
June 30, 1903.	30,450	5,151	35,601	96	19	.....	.....	115	22,738,698	738	154,651	3.88	256
June 30, 1904.	36,316	5,665	41,981	95	23	.....	.....	118	26,814,715	738	218,006	3.88	256
Totals	332,082	49,697	381,779	990	189	214	108	1,441	237,412,418	715	179,722	3.97	251

*Accidents for 2nd District only. No report for 1st District.

*FATAL ACCIDENTS, BY CAUSES, IN WEST VIRGINIA, 1883, To
1904.*

CAUSES	Year ending Dec. 31st		Jan. 1887 to June 30, 1888.	Year ending June 30th.																Totals.	Percentage.	
	1883	1884*		1885	1886	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	1900	1901	1902	1903			1904
Falls of roof, coal, etc.	17	16	5	23	10	20	23	22	54	49	51	48	47	68	64	61	76	79	96	95	926	64.3
Mine cars.....	3	4	2	12	3	3	3	5	8	6	12	8	7	11	13	15	20	23	19	23	187	12.9
Gas and powder explosions.....	..	..	3	30	..	6	1	5	..	12	1	2	2	2	4	57	29	7	32	12	214	14.9
Other.....	..	..	2	2	3	..	3	5	4	8	6	8	9	8	..	8	5	11	12	10	113	9.9
Totals.....	20	23	48	31	13	27	37	31	72	59	83	65	62	90	89	141	130	120	159	140	1,440	100.0

*No report.

†No report for 1st mining district.

*FATAL ACCIDENTS INSIDE AND OUTSIDE FROM 1883 to 1892
INCLUSIVE.*

Inside.

CAUSES.	1883	1884	1885	1886	1887	1888	1889	1890	1891	1892	Totals.	Percentage.
Falls of coal, slate and roof	17	16	1	1	1	1	1	1	1	1	143	67.14
Mine cars.....	3	4	3	3	3	3	3	3	3	3	14	6.57
Explosions of gas .....	..	..	..	..	..	..	..	..	..	..	47	22.07
Explosions of powder, dust and blasts .....	..	..	..	..	..	..	..	..	..	..	1	0.47
Locomotives .....	..	..	..	..	..	..	..	..	..	..	1	0.47
Miscellaneous .....	..	..	..	..	..	..	..	..	..	..	5	2.35
Totals	19	20	44	31	11	24	29	35	213	100.00		

Outside.

CAUSES.	1883	1884	1885	1886	1887	1888	1889	1890	1891	1892	Totals.	Percentage.
Cars	1	no report.	3	1	1	1	1	1	1	1	9	42.86
Locomotives .....	..	..	..	..	..	..	..	..	..	..	2	9.52
Miscellaneous .....	..	..	..	..	..	..	..	..	..	..	10	47.62
Totals	1	3	4	2	2	3	7	1	21	100.00		

*The accidents are for the 18 months from January 1st, 1887 to June 30, 1888.

†Accidents reported for 2nd District only.

FATAL ACCIDENTS, INSIDE AND OUTSIDE, 1893 to 1904, INCLUSIVE.

Inside.

CAUSES.	1893	1894	1895	1896	1897	1898	1899	1900	1901	1902	1903	1904	Totals.	Percent- age.
Falls of coal, roof and slate.....	54	49	61	48	47	67	64	61	76	79	96	95	787	71.03
Mine cars.....	5	4	9	4	6	6	7	11	11	13	12	12	100	9.03
Explosions of gas.....	5	15	1	1	1	1	4	50	10	24	3	88	7.94	
Explosions of powder, dust and shots.....	5	1	1	1	1	1	4	6	19	7	8	9	77	6.95
Mules.....	1	1	1	1	1	1	1	1	1	1	1	1	3	.27
Mine machines.....	1	1	1	1	1	1	1	1	1	1	1	1	3	.27
Motors.....	1	1	1	1	1	1	1	1	1	1	1	1	1	.09
Locomotives.....	2	2	1	5	3	1	4	2	1	11	1	1	9	.81
Miscellaneous.....	2	2	2	5	3	1	4	2	2	11	4	3	40	3.61
Totals.....	67	55	79	58	60	76	79	133	121	110	147	123	1,108	100.00

Outside.

CAUSES.	1893	1894	1895	1896	1897	1898	1899	1900	1901	1902	1903	1904	Totals.	Percent- age.
Cars.....	5	2	3	5	2	9	6	7	9	10	7	11	76	76.77
Machinery.....	1	1	1	1	1	1	1	1	1	1	1	1	8	3.03
Boiler explosions.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1.01
Locomotives.....	1	1	1	1	1	1	1	1	1	1	1	1	5	5.05
Miscellaneous.....	1	1	1	1	1	1	1	1	1	1	1	1	14	14.14
Totals.....	5	4	4	7	2	11	10	8	9	10	12	17	99	100.00

TABLE SHOWING THE NUMBER KILLED INSIDE OF THE MINES BY FALLS PER EACH 1,000 PERSONS EMPLOYED INSIDE OF THE MINES IN THE STATES OF OHIO, ILLINOIS, PENNSYLVANIA AND WEST VIRGINIA, FROM 1897 to 1903 INCLUSIVE.

YEARS.	Ratio Killed by Falls of Coal, Slate and Roof per 1000 Inside Employees.				
	Ohio.	Illinois.	Pennsylvania.		West Virginia.
			Bitumi- nous Mines.	Anthra- cite Mines.	
1897.....	1.07	1.52	1.50	2.13	2.75
1898.....	1.47	1.36	1.92	2.04	3.60
1899.....	1.52	1.54	2.18	2.45	3.26
1900.....	1.52	1.44	1.79	1.86	2.79
1901.....	1.38	1.43	1.95	2.29	2.95
1902.....	1.59	1.42	2.02	1.18	2.90
1903.....	2.13	1.65	1.92	2.05	3.15
Averages.....	1.53	1.48	1.90	2.00	3.06
1904.....					2.50
Averages.....					2.7

TABLE SHOWING THE NATIONALITIES OF PERSONS KILLED, AND CAUSES OF ACCIDENTS AT THE MINES FOR THE YEARS 1903 AND 1904.

NATIONALITIES.	1903										1904									
	Causes.					Causes.					Causes.					Causes.				
	Inside.					Outside.					Inside.					Outside.				
	Falls of coal, slate and roof.	Mine cars.	Explosions of gas.	Explosions of powder, dust and shots.	Mules.	Miscellaneous.	Total number killed inside.	Cars.	Machinery.	Locomotives.	Miscellaneous.	Total number killed outside.	Cars.	Machinery.	Locomotives.	Miscellaneous.	Total number killed.	Total number killed inside and outside.		
American	40	4	7	2	1	5	59	4	...	1	3	8	67	5	1	2	7	87	57	
Negro	13	3	11	2	...	1	35	3	...	1	...	4	39	...	...	...	7	29	13	
Italian	6	1	...	...	...	...	8	...	...	...	...	...	17	...	...	...	...	6	6	
Hungarian ..	13	2	1	1	...	...	17	...	...	...	...	...	...	...	...	...	...	4	4	
Polish	8	...	...	...	...	...	8	...	...	...	...	...	9	...	...	...	...	5	5	
English .....	...	...	1	1	...	...	2	...	...	...	...	...	5	...	...	...	...	6	6	
Slovak	4	...	2	...	...	...	6	...	...	...	...	...	12	...	...	...	...	8	8	
German	1	...	...	...	...	...	1	...	...	...	...	...	1	...	...	...	...	2	2	
Irish	1	...	...	...	...	...	1	...	...	...	...	...	1	...	...	...	...	1	1	
Austrian	1	...	...	...	...	...	1	...	...	...	...	...	1	...	...	...	...	1	1	
Lithuanian ..	1	...	...	...	...	...	1	...	...	...	...	...	1	...	...	...	...	1	1	
Scotch .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Welsh	1	1	1	...	...	...	3	...	...	...	...	...	1	...	...	...	...	1	1	
Turkish .....	...	...	...	2	...	...	2	...	...	...	...	...	1	...	...	...	...	...	...
Danish .....	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Swedish	1	1	...	...	...	...	2	...	...	...	...	...	1	...	...	...	...	...	...
Unknown .....	...	...	...	...	...	...	1	...	...	...	...	...	1	...	...	...	...	...	...
Totals	98	12	24	8	1	6	147	7	...	2	3	12	159	95	12	3	9	123	140	

NATIONALITIES OF PERSONS KILLED AND INJURED—1904.

NATIONALITIES.	Fatal.	Non-fatal.	Totals.
American.....	57	110	167
Negro.....	29	29	58
Italian.....	18	30	48
Hungarian.....	6	7	13
Polish.....	4	8	12
English.....	6	9	15
Slavish.....	5	1	6
German.....	3	1	4
Irish.....	1	2	3
Austrian.....	2	3	5
Lithuanian.....	4	.....	4
Scotch.....	1	.....	1
Servian.....	1	.....	1
Assyrian.....	.....	1	1
Russian.....	.....	1	1
Greek.....	.....	1	1
Unknown.....	• 8	8	16
Totals.....	140	211	351

AGES OF PERSONS KILLED AND INJURED—1904.

AGES.	Fatal.	Non-fatal.	Totals.
14 years or younger.....	3	7	10
15 ".....	2	7	9
16 ".....	4	1	5
17 ".....	4	6	10
18 ".....	5	10	15
19 ".....	6	8	14
20 ".....	2	11	13
20 " to 25 years including 25.....	36	45	81
25 " 30 " 30.....	19	34	53
30 " 35 " 35.....	16	18	34
35 " 40 " 40.....	13	28	41
40 " 45 " 45.....	8	9	17
45 " 50 " 50.....	7	9	16
50 " 55 " 55.....	6	4	10
55 " 60 " 60.....	3	2	5
60 " 65 " 65.....	1	1	2
65 " 70 " 70.....	1	.....	1
Over 70 years.....	1	.....	1
Unknown.....	3	11	14
Totals.....	140	211	351

**TERMS OF EXPERIENCE OF PERSONS KILLED AND INJURED
AT THE WEST VIRGINIA COAL MINES,
1901 TO 1904 INCLUSIVE.**

TIME OF EXPERIENCE.	1901.			1902.			1903.			1904.		
	Fatal.	Non-Fatal.	Totals.	Fatal.	Non-Fatal.	Totals.	Fatal.	Non-Fatal.	Totals.	Fatal.	Non-Fatal.	Totals.
3 months or less	18	30	48	19	25	44	28	44	70	15	28	43
Over 3 months and including 6 months.	6	13	19	9	8	17	5	21	26	8	15	23
Over 6 months " 12 months.	13	20	33	13	30	43	21	31	52	15	25	40
2 years	8	16	24	14	26	40	15	15	30	14	33	47
3 years	4	6	10	6	12	18	4	14	18	8	14	22
4 years	4	7	11	8	10	18	8	8	16	6	9	15
5 years	3	9	12	6	10	16	12	15	27	9	13	22
6 years	3	10	13	2	6	8	3	3	6	3	6	9
7 years	2	2	4	1	6	7	2	5	7	3	3	6
8 years	4	5	9	3	4	7	6	4	10	1	5	6
9 years	3	3	6	1	4	5	3	1	4	1	2	3
10 years	6	1	7	7	20	27	5	9	14	2	4	6
Over 10 years and including 15 years.	7	8	15	5	5	10	5	15	20	5	6	11
Over 15 " " " "	3	8	11	2	5	7	5	4	9	3	12	15
Over 20 " " " "	1	1	2	1	1	2	2	3	5	3	3	6
Over 25 " " " "	1	2	3	1	1	2	2	2	4	2	2	4
Over 30 " " " "	1	1	2	1	1	2	1	1	2	1	1	2
Over 35 " " " "	1	1	2	1	1	2	1	1	2	1	1	2
Over 40 " " " "	1	1	2	1	1	2	1	1	2	1	1	2
Over 45 " " " "	1	1	2	1	1	2	1	1	2	1	1	2
Several years.	6	5	11	2	5	7	10	11	21	8	6	14
Many years.	2	2	4	2	6	8	1	3	4	1	1	2
Always.	3	3	6	2	2	4	1	3	4	4	2	6
Unknown.	39	28	67	16	48	64	23	22	45	27	25	52
Totals.	180	180	360	120	239	359	159	223	382	140	211	351

TABLE EXHIBITING THE CAUSES OF FATAL AND NON-FATAL ACCIDENTS AND THE NUMBER AND PERCENTAGE BY EACH CAUSE—1904.

CAUSES.	Fatal.	Non-Fatal.	Total.	Percentage.
Fall of roof.	79	77	156	44.45
Fall of coal.	14	16	30	8.55
Fall of coal and roof.	2	1	3	.86
Mine cars.	22	50	72	20.51
Explosions of gas.	3	5	8	2.28
Explosions of powder.	1	14	15	4.28
Explosions of powder and dust.	3	2	5	1.43
Premature explosions.	2	2	4	1.14
Blownout shot.	1	12	13	3.71
Shot blew through.	2	1	3	.86
Thawing dynamite.	1	1	2	.57
Mine machines.	8	8	16	4.52
Mine locomotive.	2	4	6	1.71
Machinery on tippie.	1	3	4	1.14
Railroad cars.	1	2	3	.86
Cable on incline.	1	1	2	.57
Steam pipe exploded.	1	1	2	.57
Electrocuted.	1	1	2	.57
Monitor.	1	1	2	.57
Struck by lever.	1	1	2	.57
Struck by timbers.	1	1	2	.57
Struck by wooden rail.	1	1	2	.57
Mine door.	1	1	2	.57
Fell down shaft.	1	1	2	.57
Loose coal.	3	3	6	1.71
Electric pump.	1	1	2	.57
By animals.	3	3	6	1.71
Iron rails fell on him.	1	1	2	.57
Tippie knocked down.	2	2	4	1.14
Totals.	140	211	351	100.00

*ACCIDENTS TABULATED ACCORDING TO THE DAYS OF
THE WEEK ON WHICH THEY OCCURRED—1904.*

FATAL ACCIDENTS.

	Sunday.	Monday.	Tuesday.	Wednesday.	Thursday.	Friday.	Saturday.	Totals.
Inside.....	23	31	24	16	13	16	123
Outside.....	4	1	3	5	1	3	17
Totals.....	27	32	27	21	14	19	140

NON-FATAL ACCIDENTS.

	Sunday.	Monday.	Tuesday.	Wednesday.	Thursday.	Friday.	Saturday.	Totals.
Inside.....	3	37	37	33	40	28	14	191
Outside.....	.....	5	5	13	1	4	3	20
Totals.....	3	42	42	34	41	32	17	211

SUMMARY, FATAL AND NON-FATAL ACCIDENTS.

	Sunday.	Monday.	Tuesday.	Wednesday.	Thursday.	Friday.	Saturday.	Totals.
Inside.....	3	60	68	56	56	41	30	314
Outside.....	.....	9	6	5	6	5	6	37
Totals.....	3	69	74	61	62	46	36	351

FATAL ACCIDENTS FOR THE YEAR ENDING JUNE 30, 1904.

No.	COUNTY.	NAME OF MINE.	Name of Person Killed.	Date of		Nationality.	Length of experience.	Age.	Occupation.	Married or single.	Widow.	Children.	Total No. dependants.	Insurance and amount.	How Killed.	Inquest.
				Injury.	Death.											
1	Hancock.	Marquet No. 1.	Salvator Di Maria	10-27, '03	10-27, '03	Italian	3 wks.	30	Miner	M	yes	4	5	5	Fall of roof	no.
2	Harrison.	Pooz.	Andy Malur-chuk, Jr.	10-26, '03	10-26, '03	Slavish	1 yr.	16	Miner	S	yes	10	11	5	Fall of coal.	no.
3	"	Two Lick	Chas. E. Starr	10-29, '03	10-29, '03	American	29 yrs.	45	Supt.	M	yes	4	5	5	Cable on incline	no.
4	"	Waldo	Jos O'Dell	2-4, '04	2-4, '04	American	35 yrs.	35	Forem'n out	M	yes	4	5	5	Machinery on tippie	no.
5	"	Pinkinnick	Robert Iderton	2-8, '04	2-8, '04	American	2 yrs.	53	Miner	M	no	3	3	3	Fall of coal and slate.	no.
6	"	Interstate	John Venosky	4-18, '04	4-19, '04	Lith'anian	18 mos.	27	Miner	M	yes	3	3	3	Fall of slate	no.
7	Marion.	Monongah No. 3	John Vannish	7-8, '03	7-8, '03	Slavish	6 mos.	19	Miner	M	yes	3	4	4	Fall of coal.	no.
8	"	Monongah No. 3	Stacey Koslos	7-25, '03	7-25, '03	Polish	18 mos.	29	Miner	M	yes	3	4	4	Fall of slate.	no.
9	"	Gaston.	Geo. W. Yeager	9-9, '03	10-5, '03	American	5 yrs.	27	Miner	M	yes	4	5	5	Fall of slate.	no.
10	"	W. Fair. Shaft	E. H. Seaton	9-24, '03	9-24, '03	American	2 das.	27	Shoveler	M	yes	4	5	5	Fall of slate.	no.
11	"	Pennois	John C. Risgin	9-26, '03	9-26, '03	American	25 yrs.	45	Mine boss.	M	yes	9	10	10	Fall of slate.	no.
12	"	W. Fair. Shaft	Toney Wells	11-9, '03	11-9, '03	Italian	4 yrs.	50	Miner	M	yes	1	1	1	Fall of slate.	no.
13	"	Monongah No. 6	John Moot	11-11, '03	11-11, '03	Italian	14 mos.	25	Miner	M	yes	1	1	1	Fall of slate.	no.
14	"	Montana	John Yonco	12-7, '03	12-7, '03	Slavish	10 das.	19	Miner	M	yes	1	1	1	Fall of coal.	no.
15	"	New England.	Sam Hughes	1-12, '04	1-12, '04	Negro	2 yrs.	37	Miner	M	yes	1	1	1	Fall of slate.	no.
16	"	Gaston.	James Andia	1-23, '04	1-24, '04	Italian	2 yrs.	25	Miner	M	yes	1	1	1	Mine cars (inside)	no.
17	"	New England.	Harry Haddix	2-15, '04	2-15, '04	American	3 yrs.	16	Driver	M	yes	1	1	1	Fall of slate	no.
18	"	Chifton	Carman Cza	3-1, '04	3-7, '04	Italian	1 yr.	19	Miner	M	yes	1	2	2	Shot blew through.	no.
19	"	Murray	George Sappo	3-29, '04	3-29, '04	Slavish	2 yrs.	40	Miner	M	yes	1	2	2	Fall of coal.	no.
20	"	Chifton	John Penney	6-1, '04	6-1, '04	Italian	1 yr.	45	Miner	M	yes	1	2	2	Fall of coal.	no.
21	"	Monongah No. 6	Salvatore Estes	6-18, '04	6-19, '04	Italian	1 yr.	23	Miner	M	yes	1	2	2	Fall of slate.	no.
22	"	New England.	Giovanni Sorzi-anni	6-28, '04	6-28, '04	Italian	1 mo.	33	Miner	M	yes	1	2	2	Fall of slate.	no.
23	Marshall.	Glendale	Mike Jope	8-29, '03	8-29, '03	Polish	33	Miner	M	yes	1	2	2	2	Mine cars (inside)	no.
24	"	Hitchman	Henry Lause	4-12, '04	4-12, '04	Polish	35	Miner	M	yes	1	2	2	2	Fall of stone.	no.
25	Clay	Dorfee	Michael Beane	3-24, '04	3-24, '04	Irish	30 yrs.	50	Supt.	M	yes	8	3	3	Mine cars (outside).	no.
26	Kanawha	No. 1 (C. C. Co)	Jeff Price	11-4, '03	11-4, '03	Negro	always	30	Miner	M	yes	8	3	3	Fall of slate.	no.
27	"	Winifrede W	Richard Toney	11-9, '03	11-9, '03	American	3 yrs.	20	Miner	M	yes	3	3	3	Fall of slate.	no.
28	"	Acme	Wm. Stephens	11-13, '03	11-13, '03	American	3 yrs.	15	Miner	M	yes	3	3	3	Fall of slate.	no.
29	"	No. 1 (C. C. Co)	Andy Cochran	1-28, '04	1-28, '04	American	20 yrs.	41	Miner	M	yes	3	4	4	Fall of slate.	no.
30	"	Kellys Creek.	Archie Hudnal	2-1, '04	2-1, '04	American	sev'l yrs	15	Miner	M	yes	3	4	4	Fall of slate.	no.
31	"	United Gas.	Harry C. Thompson	2-1, '04	2-1, '04	American	25 yrs.	55	Miner	M	yes	9	10	10	Explosion of powder.	no.
32	"	Robinson No. 5	Frank Johnson	3-16, '04	3-16, '04	American	47 yrs.	70	Miner	M	yes	9	10	10	Fall of coal.	no.
33	"	Waconah	John Lloyd	4-2, '04	4-2, '04	American	always	50	Miner	M	yes	Y	Y	Y	Mine cars (outside).	no.
34	Putnam.	Plymouth	Nuster Sanders	7-11, '03	7-11, '03	American	5 yrs.	21	Driver	M	yes	1	1	1	Mine car (inside)	no.

FATAL ACCIDENTS FOR THE YEAR ENDING JUNE 30, 1904.—Continued.

No.	COUNTY.	NAME OF MINE.	Name of Person Killed.	Date of		National-ity.	Length of experience.	Age.	Occupation.	Married or single.	Widow.	Children.	Total No. dependents.	Insurance and amount.	How Killed.	Inquest.
				Injury.	Death.											
35	Putnam...	Pocatalico...	George Coleman	9-23, '03	9-23, '03	Negro...	1 yr.	32	Miner	M	yes	2		\$	Fall of slate	No.
36	"	Plymouth...	Wade Lawson...	6-10, '04	6-10, '04	American...	2 yrs.	22	Driver	M	yes	1		50.00	Fall of slate	
37	Fayette...	Prudence...	Wm. Young...	8-5, '03	8-5, '03	American...	3 1/2 yrs	51	Miner	M	yes	1			Fall of slate	
38	"	Harvey...	August Deister-	9-16, '03	9-16, '03	German...	sev'l yrs	35	Miner	M	yes			50.00	Blown out shot.	
39	"	Hemlock Hol-	J. C. McCutcho-	9-23, '03	9-23, '03	American...	sev'l yrs	33	Miner	M	yes	2			Fall of slate.	
40	"	Low...	Wm. Brown...	10-6, '03	10-6, '03	German...	10 mos.	33	Laborer	M	yes	2			Fall of slate.	
41	"	Whipple...	Donna Foosa...	10-10, '03	10-10, '03	Hungarian...	10 mos.	33	Miner	M	yes	2			Fall of slate.	
42	"	Star...	I. D. Lee...	10-23, '03	10-23, '03	American...	3 yrs.	21	Driver	M	yes				Mine car (inside)	
43	"	Boomer No. 3...	Burt Walker...	11-9, '03	11-9, '03	American...	6 mos.	16	Greaser	M	yes				Mine car (outside)	
44	"	K. & H. No. 117	Edward P. Wil-	11-9, '03	11-9, '03	American...	6 mos.	51	Veigh boss	M	yes	3			Mine car (outside)	
45	"	K. & H. No. 117	Wm. C. Smith...	11-9, '03	11-9, '03	American...	6 mos.	51	Engineer	M	yes	1		50.00	Mine car (outside)	
46	"	Collins...	Tom Johnson...	11-10, '03	11-10, '03	Negro...	sev'l yrs	35	Fireman	M	yes	1			Steam pipe exploded (out-	
47	"	Blume...	James P. Britt...	11-23, '03	11-23, '03	American...	20 yrs	49	Miner	M	yes				Fall of slate	
48	"	Scarbrough...	James F. Hale...	12-11, '03	12-11, '03	American...	10 yrs	23	Miner	M	yes				Electrocuted (inside)	
49	"	Epuraim Creek	Isaac Cromwell...	12-12, '03	12-12, '03	Negro...	6 mos.	70	Miner	M	yes	7			Monitor (outside)	
50	"	Rush Run	Eva Mickey...	12-16, '03	12-16, '03	Negro...	2 yrs.	22	Driver	M	yes				Mine car (inside)	
51	"	Rush Run	Robert Peckins...	12-16, '03	12-16, '03	Negro...	6 yrs	11	School-boy	M	yes				Mine car (outside)	
52	"	Brooklyn...	Wm. Mitchell...	1-11, '04	1-11, '04	Negro...	6 yrs	33	Laborer	M	yes				Mine car (outside)	
53	"	Red Ash...	C. W. Kelley...	1-19, '04	1-19, '04	American...	7 yrs.	21	Laborer	M	yes	1			Fall of slate	
54	"	Prudence...	M. A. Grinnett...	1-26, '04	1-26, '04	American...	6 yrs	46	Miner	M	yes				Fall of slate	
55	"	Bruener No. 3...	Walter Craig...	1-26, '04	1-26, '04	American...	6 yrs	24	Dumper	M	yes				Mine car (outside)	
56	"	Macdonald...	C. L. Adkins...	2-26, '04	2-26, '04	American...	18 mos.	18	Miner	M	yes	6			Mine car (inside)	
57	"	K. & H. No. 117	John M. Grinn-	8-1, '04	8-1, '04	American...	18 mos.	38	Mach. miner	M	yes				Fall of slate	
58	"	Macdonald...	Henry L. Dun-	8-1, '04	8-1, '04	American...	3 yrs.	24	Miner	M	yes				Fall of sandstone	
59	"	Collins...	Wince Gordy...	8-30, '04	8-30, '04	Hungarian...	6 yrs.	30	Miner	M	yes				Fall of coal	
60	"	Prudence...	Rob't Pritchett...	4-5, '04	4-5, '04	American...	2 yrs.	21	Miner	M	yes				Fall of slate	
61	"	California...	Sandy Sawders...	4-13, '04	4-13, '04	Negro...	25 yrs.	53	Miner	M	yes				Fall of slate	
62	"	K. & H. No. 117	George Ramsey...	4-30, '04	4-30, '04	American...	2 yrs.	19	Miner	M	yes				Fall of slate	
63	"	Kay Moor No. 2	Frank Deater...	5-25, '04	5-25, '04	American...	7 1/2 yrs.	27	Miner	M	yes	2			Fall of slate	
64	"	Star...	Henry Ains-	6-3, '04	6-3, '04	English...	14 yrs.	33	Fire boss	M	yes				Fall of slate	
65	"	Kanawha Gas	cough	6-16, '04	6-16, '04	American...	3 wks.	18	Miner	M	yes				Fall of slate	
66	"	Kanawha Gas	David Cox...	6-16, '04	6-16, '04	American...	7 yrs.	32	Miner	M	yes				Fall of slate	

no.	name	age	sex	occupation	years	nationality	education	experience	notes	no.
47	Fayette	67	M	Miner	44 yrs.	American	always	35	Fall of slate	10
48	Red Ash	62	M	Miner	43 yrs.	American	always	33	Fall of coal and slate	11
49	Laurel	61	M	Brakeman	22	American	always	22	Run over by locomotive (outside)	12
50	Raleigh	60	M	Miner	25	American	always	25	Fall of slate	13
51	Stonewall No. 4	59	M	Driver	17	American	always	17	Fall of slate	14
52	Stonewall No. 3	58	M	Miner	17	American	always	17	Fall of slate	15
53	Stonewall No. 2	57	M	Miner	17	American	always	17	Fall of slate	16
54	Stonewall No. 1	56	M	Miner	17	American	always	17	Fall of slate	17
55	McDowell	55	M	Miner	17	American	always	17	Fall of slate	18
56	Keystone	54	M	Miner	17	American	always	17	Fall of slate	19
57	Asland	53	M	Miner	17	American	always	17	Fall of slate	20
58	Algoma	52	M	Miner	17	American	always	17	Fall of slate	21
59	McDowell	51	M	Miner	17	American	always	17	Fall of slate	22
60	Pulaski	50	M	Miner	17	American	always	17	Fall of slate	23
61	Tide-water	49	M	Miner	17	American	always	17	Fall of slate	24
62	Empire	48	M	Miner	17	American	always	17	Fall of slate	25
63	McDowell	47	M	Miner	17	American	always	17	Fall of slate	26
64	Tug River	46	M	Miner	17	American	always	17	Fall of slate	27
65	Elk Ridge	45	M	Miner	17	American	always	17	Fall of slate	28
66	Keystone	44	M	Miner	17	American	always	17	Fall of slate	29
67	Algoma	43	M	Miner	17	American	always	17	Fall of slate	30
68	Greenbrier	42	M	Miner	17	American	always	17	Fall of slate	31
69	Asland	41	M	Miner	17	American	always	17	Fall of slate	32
70	Empire	40	M	Miner	17	American	always	17	Fall of slate	33
71	Eureka	39	M	Miner	17	American	always	17	Fall of slate	34
72	Turkey Gap	38	M	Miner	17	American	always	17	Fall of slate	35
73	Pulaski	37	M	Miner	17	American	always	17	Fall of slate	36
74	Turkey Gap	36	M	Miner	17	American	always	17	Fall of slate	37
75	McDowell	35	M	Miner	17	American	always	17	Fall of slate	38
76	Welch	34	M	Miner	17	American	always	17	Fall of slate	39
77	Powhatan	33	M	Miner	17	American	always	17	Fall of slate	40
78	Empire	32	M	Miner	17	American	always	17	Fall of slate	41
79	Mill Creek	31	M	Miner	17	American	always	17	Fall of slate	42
80	Louisville	30	M	Miner	17	American	always	17	Fall of slate	43
81	Buckeye	29	M	Miner	17	American	always	17	Fall of slate	44
82	Goodwill	28	M	Miner	17	American	always	17	Fall of slate	45
83	Crana Creek	27	M	Miner	17	American	always	17	Fall of slate	46
84	Thomas	26	M	Miner	17	American	always	17	Fall of slate	47
85	Rutherford	25	M	Miner	17	American	always	17	Fall of slate	48
86	Papoose	24	M	Miner	17	American	always	17	Fall of slate	49
87	Thacker	23	M	Miner	17	American	always	17	Fall of slate	50
88	Grapentine	22	M	Miner	17	American	always	17	Fall of slate	51
89	Greenbrier	21	M	Miner	17	American	always	17	Fall of slate	52
90	Asland	20	M	Miner	17	American	always	17	Fall of slate	53
91	Empire	19	M	Miner	17	American	always	17	Fall of slate	54
92	Eureka	18	M	Miner	17	American	always	17	Fall of slate	55
93	Turkey Gap	17	M	Miner	17	American	always	17	Fall of slate	56
94	Pulaski	16	M	Miner	17	American	always	17	Fall of slate	57
95	Turkey Gap	15	M	Miner	17	American	always	17	Fall of slate	58
96	McDowell	14	M	Miner	17	American	always	17	Fall of slate	59
97	Powhatan	13	M	Miner	17	American	always	17	Fall of slate	60
98	Empire	12	M	Miner	17	American	always	17	Fall of slate	61
99	Mill Creek	11	M	Miner	17	American	always	17	Fall of slate	62
100	Louisville	10	M	Miner	17	American	always	17	Fall of slate	63
101	Buckeye	9	M	Miner	17	American	always	17	Fall of slate	64
102	Goodwill	8	M	Miner	17	American	always	17	Fall of slate	65
103	Crana Creek	7	M	Miner	17	American	always	17	Fall of slate	66
104	Thomas	6	M	Miner	17	American	always	17	Fall of slate	67
105	Rutherford	5	M	Miner	17	American	always	17	Fall of slate	68
106	Papoose	4	M	Miner	17	American	always	17	Fall of slate	69
107	Thacker	3	M	Miner	17	American	always	17	Fall of slate	70
108	Grapentine	2	M	Miner	17	American	always	17	Fall of slate	71

FATAL ACCIDENTS FOR THE YEAR ENDING JUNE 30, 1904.—Continued.

COUNTY.	NAME OF MINE.	Name of Person Killed.	Date of		Nationality.	Length of experience.	Age.	Occupation.	Married or single.	Widow.	Children.	Total No. dependants.	Insurance and amount.	How Killed.	Inquest.
			Injury.	Death.											
106 Mingo.	Lock Fork.	T. J. Bartram.	1-27, '04	1-27, '04	American.	2 yrs.	37	Miner.	M	yes	1	1,850.00	Fall of slate.	yes	
110 "	Red Jacket.	John Hacker.	2-22, '04	2-22, '04	Hungarian.	2 mos.	35	Miner.	M	yes	1	1,850.00	Fall of slate.	yes	
111 "	Red Jacket.	John Free.	4-6, '04	4-6, '04	Negro.		23	Miner.	M				Mine cars (outside).		
112 "	Red Jacket.	Dunp Mason.	4-6, '04	4-6, '04	Negro.		23	Miner.	M				Mine cars (outside).		
113 "	Marquette.	Marino Recco.	5-11, '04	5-11, '04	Italian.		21	Miner.	M				Fall of slate.		
114 Barbour.	Philippi.	Thos. J. Vowles.	7-18, '03	7-18, '03	American.	6 wks.	40	Laborer.	M	yes	7	8	Struck by lever (outside).		
115 "	Century Shaft.	Robt. Barnosky.	11-24, '03	11-24, '03	Lithuanian.	2 yrs.	45	Miner.	M	yes	6	7 yes.	Explosion of powder and dust.	yes	
116 "	Century Shaft.	John Brown.	11-24, '03	11-24, '03	Scotch.	4 mos.	50	Miner.	M	yes	3	4	Explosion of powder and dust.		
117 "	Century Shaft.	John Painter.	11-24, '03	11-24, '03	Lithuanian.	1 yr.	40	Miner.	S				Explosion of powder and dust.		
118 "	Berryburg.	Joe Louch.	12-30, '03	12-30, '03	Slavish.	5 yrs.	28	Miner.	M				Fall of slate.	no.	
119 Grant.	Henry Shaft.	Toney Albert.	11-24, '03	12-24, '03	American.	3 mos.	31	Mach. Miner.	M				Explosion of gas.	no.	
120 "	Henry Shaft.	Frank Joe.	12-28, '03	12-28, '03	Italian.		31	Trapper.	M				Mine door (inside).	no.	
121 "	Henry Shaft.	Alex Krupha.	3-15, '04	3-15, '04	Polish.		25	Trackman.	M				Explosion of gas.		
122 "	Henry Shaft.	C. E. Henderson.	3-15, '04	3-15, '04	American.		23	Trackman.	M				Explosion of gas.		
123 Mineral.	Virginia.	W. S. Barber.	1-12, '04	1-12, '04	American.	always	28	Miner.	M	yes	1	2,400.00	Fall of slate.		
124 "	Virginia.	James D. McGinnis.	4-12, '04	4-12, '04	English.		34	Miner.	M				Fall of coal.	no.	
125 Preston.	Tunnelton No. 1.	James M. McGinnis.	8-15, '03	8-15, '03	American.	4 yrs.	18	Driver.	M				Fall of slate.	yes	
126 "	Corinth No. 1.	Walter H. Bailey.	10-13, '03	10-13, '03	English.	5 yrs.	40	Miner.	M	no.			Fall of slate.	no.	
127 "	Tunnelton No. 2 & 3.	Vincenzo Ferraro.	11-5, '03	11-5, '03	American.		31	Driver.	M				Premature explosion.	no.	
128 "	Austen No. 2.	Yanko Zickovic.	11-17, '03	11-17, '03	Italian.	3 yrs.	31	Miner.	M	yes			Fall of slate.		
129 "	Victoria.	Thomas Burdick.	1-18, '04	1-18, '04	Austrian.	3 yrs.	25	Miner.	M	yes	3	4	Fall of slate.		
130 "	Austen No. 2.	George Florra.	3-21, '04	3-21, '04	English.	50 yrs.	25	Miner.	M	yes	3		Fall of slate.		
131 Tucker.	No. 2.	John Paul.	7-6, '03	7-6, '03	Serbian.	1 yr.	20	Mach. Run'r.	M				Fall of slate.		
132 "	No. 2.	Fred W. Reeves.	7-13, '03	7-13, '03	Lithuanian.	sev'l yrs.	25	Miner.	M				Fall of coal.		
133 "	No. 2.	Tally Thornton.	10-9, '03	10-9, '03	American.		17	Brakeman.	M				Fall of slate.		
134 "	No. 34 (shaft).	John Seichick.	11-10, '03	11-10, '03	American.		37	Miner.	M	yes	2		Shot blow through.		
135 "	Douglas No. 1.	John Radrata.	1-20, '04	1-20, '04	Austrian.	15 mos.	33	Miner.	M	yes	1	2,300.00	Fell down shaft.		
136 "	No. 23.	Albert Conatus.	2-8, '04	2-8, '04	American.		23	Miner.	M	yes	1		Fall of coal.		
137 "	No. 28.	Wald Conatus.	2-8, '04	2-8, '04	American.		23	Miner.	M	yes	1		Fall of slate.		
138 "	No. 34 (shaft).	Pete Demise.	2-27, '04	2-27, '04	American.		24	Miner.	M	yes	1		Fall of slate.		
139 "	Douglas No. 1.	George Jenkins.	5-24, '04	5-24, '04	English.	38 yrs.	63	Mine Boss.	M	yes	10	11,200.00	Fall of slate.		

* Relief fund.

NON-FATAL ACCIDENTS FOR THE YEAR ENDING JUNE 30, 1904.

No.	COUNTY.	NAME OF MINE.	Name of Person Injured.	Date of Accident.	Nationality.	Length of Experience.	Age.	Occupation.	Nature of Accident.	Injuries Sustained.
1	Brooke Harrison	Wiota.	Wm. Bank's.	8-22, '03	63 American.	10 yrs.	27	Driver	Mine cars (inside)	Foot bruised.
2		Pinnickinnick	Mike Cato.	8-1, '03	63 Hungarian	1½ yrs.	30	Miner	Fall of slate.	Left leg and bones of foot broken.
3		Interstate	Frank Berto.	8-12, '03	63 Austrian.	15 mos.	23	Miner	Fall of coal.	Head cut, back bruised.
4		Waldo	Ellsworth Powler.	8-20, '03	63 American.	2 mos.	23	Boss driver.	Mine cars (inside)	Compound fracture of leg.
5		Riverdale	Scott Gattrell.	9-15, '03	63 American.	6 mos.	23	Mach. helper.	Fall of coal.	Leg broken and cut.
6		Fall Run.	John Lakos.	10-7, '03	63 Polish.	3 mos.	22	Miner	Mine cars (inside)	Compound fracture of leg.
7		Riverdale.	Joseph Frontera.	10-16, '03	63 Italian.	1½ mos.	21	Miner	Mine car (inside)	Left thigh and right leg broken.
8		Pinnickinnick	Patrick Flaherty.	10-22, '03	63 American.	2 yrs.	15	Driver	Mine car (inside)	Right leg broken and cut, left hand crushed.
9		Solon	Sam Maritz.	11-14, '03	63 Italian.	2 wks.	30	Laborer.	Machinery on tippie	Arm broken.
10		Fairmore.	Thomas Philbert.	11-16, '03	63 American.	2 mos.	19	Miner	Fall of coal.	Slight injury to back.
11		Ehlen	James Fleming.	12-2, '03	63 American.	4 mos.	24	Driver	Mine cars (inside)	Leg broken and crushed.
12		Meadowbrook	Bart Yacons.	1-4, '04	64 Italian.	1 mo.	16	Coupler.	Mine cars (inside)	Leg mashed, finger broken and head cut.
13		Pooz	John Vohararak.	1-7, '04	64 Slavish	9 mos.	48	Trapper	Mine cars (inside)	Leg broken.
14		Pinnickinnick	James Lovas.	2-15, '04	64 Slavish	4 mos.	25	Miner	Fall of slate	Leg broken.
15		Fall Run.	Chas. Simon.	3-23, '04	64 Assyrian.	1 year	18	Miner	Fall of slate	Thigh broken.
16		Riverdale.	Pietro Romano.	3-23, '04	64 Italian.	2 yrs.	48	Miner	Fall of slate	Ribs broken on each side.
17		Ehlen.	John Starories.	4-13, '04	64 Hungarian	6 mos.	24	Coal trimmer.	Railroad car	Lungs injured.
18		Pooz	John U. Martin.	5-28, '04	64 American.	2 yrs.	17	Trapper	Mine car (inside)	Ankle crushed, requiring amputation.
19		Ocean.	Albert Alexander.	6-14, '04	64 Slavish	4 yrs.	95	Machinist.	Mine Machine	Leg broken, scalp torn.
20		Solon	A. E. Vassar.	6-14, '04	64 English	6 mos.	20	Miner	Blowmout shot	Head cut and concussion of the brain.
21		Erie.	R. Earl Collins.	6-16, '04	64 American.	7 mos.	20	Miner	Blowmout shot	Head and face burned.
22		Solon	Pasco Anverto.	6-23, '04	64 Italian	3 yrs.	20	Driver	Fall of slate	Sight of left eye destroyed. Face, body and hands burned and cut.
23		Viropa	Frank Ygunt.	6-30, '04	64 Italian	3 yrs.	19	Mach. helper.	Mine machine.	Both bones in leg fractured.
24	Marion.	New England.	Ed. C. Jones.	7-13, '03	63 American.	17 mos.	44	Miner	Mine car (inside)	Foot, leg and ankle fractured.
25		New England.	Antonio Fuselle.	7-16, '03	63 Italian	1 year	30	Carpenter	Mine car (inside)	Double fracture of arm.
26		New England.	James F. Hawkins.	7-23, '03	63 American.	8 yrs.	30	Mach. runner.	Mine car (inside)	Three ribs broken, ends punctured lung.
27		New England.	A. L. Price.	7-23, '03	63 American.	8 yrs.	30	Mach. runner.	Mine car (inside)	Arm broken, hip and shoulder bruised.

NON-FATAL ACCIDENTS FOR THE YEAR ENDING JUNE 30, 1904.

COUNTY.	NAME OF MINE.	Name of Person Injured.	Date of Accident.	Nationality.	Length of Experience.	Age.	Occupation.	Nature of Accident.	Injuries Sustained.
28 Marion....	Mon'gah No. 2	Tony Tusch.....	8-6, '03	Italian	18 mos.	37	Miner	Explosion of powder	Face, hands and portions of body burned.
29 " "	Mon'gah No. 2	Joe Mitz.....	8-6, '03	Italian	18 mos.	39	Miner	Explosion of powder	Face, hands and portions of body burned.
30 " "	Mon'gah No. 2	Frank Fazio.....	8-6, '03	Italian	4 years	50	Miner	Explosion of powder	Face, hands and portions of body burned.
31 " "	Mon'gah No. 2	Frank Selva.....	8-6, '03	Italian	6 mos.	46	Miner	Explosion of powder	Face, hands and portions of body burned.
32 " "	Mon'gah No. 2	Albert Padula....	8-6, '03	Italian	1 year.	19	Miner	Explosion of powder	Face, hands and portions of body burned.
33 " "	Mon'gah No. 2	Angello DeAlexan- der	8-6, '03	Italian	6 mos	37	Miner	Explosion of powder	Face, hands and portions of body burned.
34 " "	Mon'gah No. 2	Pasquel Mongee....	8-6, '03	Italian	2 years	36	Miner	Explosion of powder	Face, hands and portions of body burned.
35 " "	Mon'gah No. 2	Prosper Orfino....	8-6, '03	Italian	6 mos	15	Trapper	Explosion of powder	Face, hands and portions of body burned.
36 " "	Mon'gah No. 2	Nick Fazio.....	8-6, '03	Italian	4 years	40	Miner	Explosion of powder	Face, hands and portions of body burned.
37 " "	Mon'gah No. 2	Grover Spragg....	8-6, '03	American	1 year.	14	Trapper	Explosion of powder	Face slightly burned.
38 " "	Mon'gah No. 2	Joe Villette.....	8-6, '03	Italian	6 mos.	45	Miner	Explosion of powder	Face burned.
39 " "	Mon'gah No. 6	James Ramle.....	8-6, '03	American	3 years	49	Miner	Explosion of powder	Scalp wound and hips bruised.
40 " "	Montana.....	J. H. Joke.....	8-12, '03	American	6 years	34	Miner	Fall of slate	Lower end of spinal column broken.
41 " "	Mon'gah No. 3	John Pella.....	9-9, '03	Slavish	10 yrs.	22	Driver	Mine car (inside)	Collar bone and one or more ribs broken.
42 " "	Montana.....	L. C. Keener.....	9-10, '03	American	10 yrs.	36	Miner	Fall of slate	Left leg and arm broken.
43 " "	Highland.....	Conget Demerrie..	10-5, '03	Italian	5 mos.	34	Miner	Mine car (inside)	Leg crushed, necessitating amputation.
44 " "	Montana.....	Chas. Kerdner.....	10-12, '03	Hungarian	14 days	21	Miner	Fall of slate.	Shoulder blade broken.
45 " "	Anderson.....	John Muse.....	10-27, '03	Italian	1 year.	25	Miner	Mine cars (inside)	Rim of pelvic bone fractured.
46 " "	W. Fair, Shaft	Rock Rezo.....	11-2, '03	Italian	4 mos.	30	Miner	Mine cars (inside)	Collar bone broken.
47 " "	Mon'gah No. 6	Jose Connie.....	11-4, '03	Italian	1 year.	38	Miner	Fall of coal.	Both bones in leg broken.
48 " "	W. Fair, Shaft	Randolph Floyd....	11-17, '03	American	4 years.	23	Machine runner	Mine machine.	Left leg broken.
49 " "	Mon'gah No. 6	Ross Knight.....	11-17, '03	American	2 mos.	13	Trapper	Mine cars (inside)	Arm broken.
50 " "	Gaston.....	Wilson D. Corley....	11-17, '03	American	2 wks.	25	Machine helper.	Mine machine.	Left leg cut off.
51 " "	Anrona.....	John Huffman.....	11-21, '03	American	3 years	15	Driver	Fall of coal and slate	Right leg broken.
52 " "	Gaston.....	John Curley, Jr....	12-4, '03	Irish	3 years	27	Miner	Explosion of gas.	Face, neck, ears and hands burned.
53 " "	Montana.....	Tom Koopcha.....	12-4, '03	Slavish	1 year.	24	Miner	Fall of slate.	Leg broken.

54	Mon'gab No. 6	Carl Braki	1-5, '04	German	2 years	38	Miner	Fall of slate	Leg broken and cut; ankle dislocated and head cut.
55	Gaston	Paul Gregg	1-12, '04	Italian	3 mos.	23	Miner	Fall of slate	Jaw fractured.
56	Chatham No. 1	Thomas Nickels	2-23, '04	Austrian	1 year	10	Driver	Blownout shot	Face and hands burned.
57	Chatham No. 1	Cyhus (Check No. 73)	2-24, '04	Austrian	1 year	30	Laborer	Fall of slate	Leg broken.
58	Peunols	Albert Farmer	3-14, '04	Negro	1 year	30	Driver	Mine cars (inside)	Leg broken.
59	Montana	Wesley Layman	3-24, '04	American	2 years	15	Trap & driver	Mine car (inside)	Concussion of spine and fracture of knee
60	Montana	Steve Snyder	4-15, '04	Slavish	3 years	37	Miner	Fall of coal	Face, neck and hands burned.
61	W. Fair Shaft	George Shouts	4-15, '04	American	8 years	40	Practice man	Explosion of gas	Right lung mashed, spinal column sprained and face cut.
62	Middleton	Ben Satterfield	4-22, '04	American	7 mos.	43	Mach. runner	Fall of coal	Both bones of leg broken.
63	Gaston	Salvatore Canata	5-10, '04	Italian	2 mos.	24	Laborer	Iron rails fell on him (inside)	Crushed through chest.
64	Mon'gab No. 3	George Panamish	2-23, '04	Polish	2 years	34	Miner	Fall of coal	Crushed through chest.
65	W. Fair Shaft	Dom Dimilo	3-31, '04	Italian	6 mos.	35	Miner	Fall of coal	Back sprained, lower limbs paralyzed
66	Mon'gab No. 3	Pasquel Fedora	6-10, '04	Italian	3 days	22	Miner	Fall of coal	Leg broken and crushed below knee, necessitating amputation.
67	Kilarn	Anton Simsie	6-28, '04	Slavish	2 years	27	Miner	Fall of slate	Both bones in leg fractured.
68	Beechwood	Tony Onkot	6-20, '04	Italian	1 mo.	35	Miner	Fall of rock	Leg broken, back bruised.
69	Clay	Estle C. Arnot	3-24, '04	American	1 day	35	Weightman	Mine cars (outside)	Leg broken.
70	Dorfee	Benj. V. Siders	6-24, '04	American	3 years	18	Driver	Mine cars (outside)	Body crushed.
71	Tippie Mine	James Richards	8-15, '03	American	20 yrs.	56	Miner	Blownout shot	Face burned.
72	Keystone	Oscar Harris	9-2, '03	American	3 years	56	Driver	Mine car (inside)	Squeezed through hips.
73	Winfrede W.	John Burgess	9-2, '03	American	3 years	24	Driver	Mine car (inside)	Leg broken and scalp wound.
74	K. & H. No. 103	George Crow	9-14, '03	American	5 years	41	Laborer	Machinery on tippie	Leg broken.
75	K. & H. No. 103	Howard Slater	10-8, '03	American	5 years	20	Driver	Mine car (inside)	Leg broken.
76	Mill Creek	Edward Lucas	10-8, '03	American	10 mos.	17	Laborer	Mine car (inside)	Skull fractured.
77	Standard	Manroe Bonds	10-30, '03	American	1 year	37	Trimmer	Tippie knocked down	Leg broken.
78	Standard	George Conrad	10-30, '03	American	1 year	37	Check we gmn	Tippie knocked down	Slight cut on head.
79	W. Va. No. 2	Samuel Clark	11-9, '03	Negro	30 ds.	37	Laborer	Thawing dynamite (6 tests)	Both hands blown off.
80	K. & H. No. 103	James Rhodes	11-23, '03	Negro	17 yrs.	32	Laborer	Railroad cars	Both legs crushed, necessitating amputation.
81	La Mont No. 2	Wm. Harless	11-30, '03	American	15 yrs.	45	Track layer	Explosion of dust & powder	Hands and face burned.
82	La Mont No. 2	Wm. Hardy	11-30, '03	American	3 years	45	Mine Boss	Explosion of dust & powder	Hands and face burned.
83	Monarch	Dock Hammond	1-1, '04	American	18	33	Mach. runner	Fall of slate	Ankle broken.
84	Scranton Sp't	Daniel Showers	1-7, '04	English	2 years	35	Driver	Mine car (inside)	Jaw fractured, face and chest bruised.
85	No. 2% R. & C.	John Turley	1-8, '04	American	15 yrs.	32	Miner	Blownout shot	Hands and face slightly cut.
86	Scranton Sp't	Millard Steele	1-8, '04	English	2 years	17	Driver	Mine car (inside)	Squeezed through hips.
87	Kellys Creek	David H. Hindall	2-1, '04	American	15 yrs.	50	Miner	Fall of slate	Back bruised.
88	Dry Branch	Charles Lowry	2-10, '04	American	15 yrs.	50	Mach. helper	Fall of slate	Left thigh broken.
89	Jones	John W. Davis	2-27, '04	American	1 year	41	Miner	Fall of slate	Foot mangled and ankle sprained.
90	Dry Branch	Wm. M. Johnson	3-16, '04	American	25 yrs.	48	Miner	Fall of slate	Mashed through hips.
91	W. Va. No. 1	Utie Clendenin	4-10, '04	American	8 years	15	Driver	Mine car (inside)	Arm broken in two places and side bruised.
92	Climax	Frank Long	4-11, '04	American	1 mo.	23	Miner	Blownout shot	Hands and face burned.

NON-FATAL ACCIDENTS FOR THE YEAR ENDING JUNE 30, 1904.

COUNTY.	NAME OF MINE.	Name of Person Injured.	Date of Accident.	Nationality.	Length of Experience.	Age.	Occupation.	Nature of Accident.	Injuries Sustained.
93 Kanawha.	Butler.	Jeff. Huffman.	4-21, '04	American.	10 yrs.	35	Miner.	Fall of slate.	Leg broken.
94 "	W. Va. No. 1.	Hugh Mulaney.	5-7, '04	American.	3 yrs.	35	Trapper.	Mine car (inside).	Foot badly mashed.
95 "	Butler.	Wilbur Turner.	5-7, '04	American.	10 yrs.	30	Motor runner.	Electric motor (inside).	Arm mashed.
96 "	Ronda.	Will H. Gillespie.	5-10, '04	American.	sev yrs.	30	Water-bailer.	Water-box (inside).	Arm broken.
97 "	Black Cut.	Wm. Miller.	6-10, '04	American.	9 yrs.	40	Nach. helper.	Mine machine.	Foot cut off.
98 Putnam.	Plymouth.	Wm. Taylor.	7-8, '03	American.	5 yrs.	40	Miner.	Fall of slate.	Back hurt.
99 "	Big Otto.	B. King.	9-25, '03	American.	5 yrs.	18	Trip rider.	Fall of slate.	Scalp wound.
100 "	Black Betsey.	Thomas Nelson.	5-25, '04	American.	7 yrs.	20	Driver.	Kicked by mule (inside).	Internal.
101 "	Black Betsey.	James Zeuphan.	5-25, '04	Russian.	3 wks.	34	Trapper.	Premature explosion.	Head and hands burned.
102 "	Black Betsey.	John Adamson.	6-8, '04	American.	5 yrs.	40	Trapper.	Electric motor (inside).	Foot cut off.
103 "	Pocahontas.	Wm. Macy.	6-8, '04	American.	5 yrs.	40	Miner.	Fall of roof.	Back sprained or bruised.
104 Fayette.	Dunlap No. 2.	E. H. Miller.	7-13, '03	American.	5 yrs.	40	Miner.	Fall of slate.	Spine injured causing temporary paralysis of lower extremities.
105 "	Blume.	Fielden Nutter.	7-21, '03	American.	12 mos.	18	Miner.	Fall of slate.	Ribs broken and mashed about body.
106 "	Fire Creek.	Giovanni Luzzi.	7-21, '03	Italian.	23	Laborer.	Miner locomotive (outside).	Fall of slate.	Foot mashed necessitating amputation.
107 "	Edg'w't'r No. 1.	B. F. Belling.	7-28, '03	American.	5 yrs.	52	Miner.	Fall of slate.	Back broken.
108 "	Collins.	Otis Cantlebury.	8-14, '03	American.	sev yrs.	35	Miner.	Fall of slate.	Back dislocated.
109 "	Vulcan.	John Early.	8-19, '03	Negro.	15 yrs.	40	Miner.	Fall of top.	Right leg broken.
110 "	Vulcan.	Sam Jones.	8-19, '03	Negro.	2 yrs.	18	Miner.	Fall of top.	Left arm broken.
111 "	Smokeless.	Joseph Miller.	10-13, '03	Negro.	15 yrs.	33	Driver.	Mine car (inside).	Ankle fractured.
112 "	K. Moor No. 2.	Willis Thomson.	10-14, '03	American.	15 yrs.	33	Driver.	Blownout shot.	Face and body burned.
113 "	Sugar Creek.	Lloyd Shields.	11-11, '03	American.	8 yrs.	24	Pumpman.	Electric pump (outside).	Left arm cut off.
114 "	Scarbro.	George Drew.	11-20, '03	Negro.	8 yrs.	28	Miner.	Fall of slate.	Leg broken, body scratched.
115 "	Rend No. 5.	Robert Walker.	11-23, '03	American.	20 yrs.	45	Miner.	Fall of slate.	Rib broken, back bruised.
116 "	No. 1 (C. I. & S. Co.)	Howard Holdren.	1-6, '04	American.	2 yrs.	33	Nach. runner.	Mine cars (outside).	Ankle bruised.
117 "	Erskine.	C. Taylor.	1-9, '04	American.	38	Miner.	Blownout shot.	Blownout shot.	Face, arms and hands burned.
118 "	Erskine.	M. E. Page.	1-9, '04	American.	5 yrs.	38	Laborer.	Blownout shot.	Face, arms and hands burned.
119 "	Erskine.	W. E. Davis.	1-9, '04	American.	5 yrs.	38	Miner.	Blownout shot.	Face, arms and hands burned.
120 "	Collins.	Jim Taylor.	1-22, '04	Negro.	2 yrs.	32	Miner.	Explos'n powder (outside).	Face and hands burned.
121 "	Collins.	Monroe Johnson.	1-22, '04	Negro.	2 yrs.	32	Miner.	Explos'n powder (outside).	Face and hands burned.
122 "	Collins.	John Rogers.	1-22, '04	Negro.	2 yrs.	32	Miner.	Explos'n powder (outside).	Face and hands burned.
123 "	Nuttallburg.	Albert Lares.	1-23, '04	Negro.	4 mos.	12	Trapper.	Struck by wooden rails.	Leg broken.
124 "	Nuttallburg.	Roy Erwin.	2-9, '04	American.	1 mo.	19	Driver.	Mine machine.	Foot badly mashed.
125 "	Dimmock.	John Wiseman.	2-9, '04	American.	1 mo.	20	Driver.	Mine machine.	Leg broken.
126 "	Keeneys Cr. k.	L. D. Eads.	2-10, '04	American.	18	Laborer.	Fall of slate.	Fall of slate.	Head cut and knee bruised.

27	Scarbro No. 1	Silas Thompson.	3-21, '04	American.	4 yrs.	24	Slate man.	Fall of slate.	Leg mashed.
28	Rush Run	Howard Young.	3-24, '04	American.	12	Trapper	Mine car (inside).	Leg broken, necessitating amputation.	
29	Chapman	Joseph Stowers.	3-25, '04	American.	20 yrs.	61	Miner	Arm broken, slight fracture of spine.	
30	Prudence	John G. Carter.	4-5, '04	American.	20 yrs.	45	Miner	Rib broken and ankle sprained.	
31	No. 1 (C. I. & S. Co.)	Fred Kincaide.	4-26, '04	English	20 yrs.	36	Driver	Wrist bone broken.	
32	Scarbro No. 1	Robert Brabbon.	4-29, '04	Negro.	4 yrs.	24	Driver	Both legs crushed.	
33	St. Clair No. 2	Will White.	5-10, '04	Negro.	4 yrs.	40	Miner	Leg broken.	
34	Sun	Wesley Hill.	5-14, '04	Negro.	1 year.	23	Miner	Leg broken.	
35	No. 1 (C. I. & S. Co.)	Sam Lynch.	6-14, '04	American.	6 yrs.	23	Brakeman	Leg broken and foot mashed.	
36	Nuttallburg	Romeo Cavendish.	6-18, '04	American.	10 yrs.	30	Trip rider	Ankle bruised and cut.	
37	Scarbro No. 1	Wm. Wilson.	6-26, '04	English	3 yrs.	30	Laborer	Burned.	
38	St. Clair No. 2	James Taylor.	6-27, '04	Negro.	10 yrs.	30	Driver	Hip dislocated.	
39	Nicholas	Nicholas Zokades	7-3, '04	Greek.	1 year.	23	Laborer	Partial dislocation of spine, rib fractured.	
40	Raleigh	John Wormly	7-31, '03	Negro.	3 yrs.	35	Miner	Back badly torn.	
41	Wright	Rufus Tjos	7-31, '03	Negro.	few days	35	Laborer	Mashed through body.	
42	Pack	R. E. Daniels	10-5, '03	American.	18 mos.	24	Miner	Spine slightly dislocated.	
43	Pack	C. C. Billups	4-4, '04	American.	1 year.	20	Driver	Collar bone dislocated.	
44	Stonewall No. 3	Vincent Harris.	8-6, '03	Negro.	6 yrs.	24	Driver	Jaw broken.	
45	McDowell	James Briggs	8-6, '03	American.	18 mos.	20	Miner	Lower part of body bruised.	
46	Empire	U. S. Osborn	8-11, '03	Hungarian	1 1/2 yrs.	36	Miner	Thigh broken, ankle sprained.	
47	Bottom Creek	Lessio Samperger.	9-1, '03	Slavish	1 year.	30	Miner	Thigh broken in two places.	
48	Empire	Andro Kovalecek	9-1, '03	Negro.	3 yrs.	17	Spragger	Loss of toes on right foot.	
49	Turkey Gap	Ezra Woods	10-16, '03	Negro.	10 yrs.	36	Miner	Leg broken.	
50	Algonia	George Thomas	11-13, '03	Negro.	3 yrs.	23	Laborer	Thigh fractured.	
51	Empire	Lewis Craig	11-13, '03	Negro.	3 yrs.	23	Laborer	Hip bone fractured.	
52	Empire	Raleigh Robinson.	11-13, '03	Negro.	8 yrs.	23	Laborer	Jaw fractured, arm and scalp cut.	
53	Empire	Robert Bush.	12-4, '03	Hungarian	3 mos.	26	Miner	Leg fractured.	
54	Algonia	Wm. Grielski	12-30, '03	American.	6 mos.	26	Miner	Hips injured.	
55	Hensley	Ballard Green.	2-5, '04	American.	6 yrs.	36	Miner	Leg broken.	
56	Keystone	Robert Walker	2-24, '04	American.	4 yrs.	30	Miner	Foot mashed, 3 toes broken and mashed through bowels.	
57	Zenith No. 1.	Kelly Monk.	3-8, '04	Negro.	2 mos.	18	Driver	Rib broken.	
58	Pulaski	John Haden.	3-17, '04	Negro.	18 mos.	40	Miner	Leg fractured.	
59	U. S. No. 3.	Richard Wilkerson	5-5, '04	American.	4 yrs.	27	Miner	Leg broken, foot cut and bruised.	
60	U. S. No. 3.	Paul Aevovitch.	5-5, '04	American.	6 mos.	23	Miner	Back hurt, head and face cut.	
61	McDowell	Joe Smith	6-10, '04	American.	4 yrs.	30	Miner	Back bruised, ankle skinned.	
62	Empire	M. A. Smith	6-12, '04	American.	31	Slate foreman	Leg fractured, ear, thumb and fore finger lacerated.		
63	Empire	Pearl Sanders.	6-30, '04	Irish	25 yrs.	55	Miner	Scalp cut and hip injured.	
64	Twin Branch.	Alonzo Lawhorn.	6-8, '04	American.	2 days.	20	Miner	Knee fractured.	
65	Pulaski	Geo. Quisenberry	6-9, '04	Italian.	10 days	30	Miner	Back and side bruised.	
66	Welch	Joe Ramella.	6-10, '04	Negro.	19	Miner	Arm broken.		
67	Bottom Creek	Joseph Mosely.							

NON-FATAL ACCIDENTS FOR THE YEAR ENDING JUNE 30, 1904.—Continued.

COUNTY.	NAME OF MINE.	Name of Person Injured.	Date of Accident.	Nationality.	Length of Experience.	Age.	Occupation.	Nature of Accident.	Injuries Sustained.
McDowell	Keystone	Thomas Smith	6-27, '04	American.	6 years	30	Tiptile man.	Machinery on tippie.	Leg broken.
168	Crozer No. 1.	Wash. Marlimer	6-27, '04	Slavish.	1 year	30	Miner	Fall of coal.	Leg broken.
169	Pinnacle	Cleveland Lush	11-3, '03	American.	1 year	23	Miner	Shot blew through.	Leg broken.
170	Thomas	G. F. Hubbard	12-19, '03	American.	12 yrs	33	Miner	Fall of slate.	Ankle crushed.
171	Coaldale	Wiley S. Williams	1-9, '04	American.	2 years	19	Dumper	Truck (outside).	Ankle and leg crushed.
172	Mill Creek	A. V. Smith	1-11, '04	American.	2 years	21	Track layer	Struck by timb rs (inside)	Thumb bruised.
173	Pinnacle	Fletcher Hill	2-6, '04	American.	2 years	32	Miner	Fall of coal.	Thigh fractured.
174	Coaldale	G. H. Washington	2-19, '04	American.	18 mos	24	Miner	Mine car (inside)	Ankle badly bruised.
175	Coaldale	P. G. Jones	2-23, '04	American.	2 years	22	Miner	Fall of slate.	Neck bruised and ankle sprained.
176	Sagamore.	Henry Word	3-24, '04	Negro.	2 years	32	Miner	Fall of slate.	Loss of little toe.
177	Coaldale	E. Spencer Byrd	4-20, '04	American.	7 years	30	Slate man.	Fall of slate.	Arm broken.
178	Coaldale	Charlie Blaine	4-27, '04	American.	3 years	19	Miner	Fall of slate.	Back and hip bruised.
179	Caswell	J. H. Cheatham Jr	5-9, '04	American.	3 years	36	Driver	Mine car. (inside)	Knee bruised.
180	Coaldale	G. E. Webster	6-6, '04	American.	21 yrs	36	Miner	Fall of slate.	Head, shoulders, arm, hip and leg bruised.
181	Mill Creek	Sherman Roberts.	6-16, '04	Negro.	8 years	25	Miner	Fall of slate.	Hand lacerated and bruised.
182	Coaldale	Will Phelps	6-27, '04	Negro.	1 mo	17	Brakeman	Mine car (inside)	Hip bruised.
183	Thacker	Peter Stissel.	7-27, '03		40	Trackman	Fall of slate.	Leg and two ribs broken, spine wrenched.	Leg broken and cut.
184	Pappoose	Lark Cline.	8-6, '03	American.	2 years	35	Miner	Fall of slate.	Leg broken.
185	Pearl	James Rouse	9-16, '03	Italian	5 years	23	Miner	Blownout shot.	Burned.
186	Lick Fork	Mike Vargo.	9-16, '03	Hungarian	2 years	33	Miner	Fall of slate.	Leg broken.
187	Red Jacket	Lonie Bunker	11-9, '03	Negro.	5 mos	42	Miner	Fall of slate.	Leg broken.
188	Red Jacket	Zack Hopkins	12-29, '03	Negro.	5 years	22	Driver	Mine car (inside)	Back badly sprained.
189	Lick Fork	Albert Copley	2-13, '04	American.	8 years	36	Slate boss.	Mine car (inside)	Bones of face and nose crushed.
190	Thacker No. 1	Doy Dinkens	2-16, '04	American.	2 years	17	Timber helper	Mine car (inside)	Arm broken.
191	Maritime	Thomas James	2-17, '04	American.	2 mos	20	Mach. helper.	Mine machine	Ankle fractured.
192	Pappoose	Charles Christian	3-10, '04	American.	5 years	28	Driver	Mine car (inside)	Leg broken.
193	Margaret	Daniel Estep	3-17, '04	American.	5 years	20	Miner	Fall of slate.	Back hurt.
194	Red Jacket.	Reuben B. Brown	3-26, '04	Negro.	16 yrs	40	Miner	Water-box (inside)	Spine injured, causing paralysis of lower limbs.
195	Margaret.	Geo. Montgomery	5-11, '04	American.	17 yrs	37	Mine boss.	Fall of slate.	Mashed in back, leg and face bruised.
196	Rutherford.	Frank Cunningham	5-30, '04	American.	15 yrs	24	Laborer	Struck by loose coal (outside)	Arm fractured, face lacerated.
197	Rutherford.	Harry E. Cook	5-30, '04	American.	1 mo	12	Laborer	Struck by loose coal (outside)	Cut on hip and over eye.
198	War Eagle.	M. P. Carlton.	6-14, '04	American.	7 years	40	Track layer	Rope broke on incline	Internal.
199									

200	Mingo....	Red Jacket...	Wm. Austin....	6-28, '04	American, 16 yrs.	48	Mine contr'tor	Mine machine....	Left thumb mashed off.
201	Grant....	Henry Shaft...	Toney Rothnick...	11-24, '03	...	22	Mach. helper.	Explosion of gas....	Burned.
202	"	Henry Shaft...	Albert Krupha....	3-15, '04	Polish....	27	Trackman....	Explosion of gas....	Head, face, neck and hands burned.
203	Mineral...	Virginia....	Virgil Hartman...	7-17, '03	American, 6 years	21	Miner....	Premature explosion...	Hands and face burned and lip cut.
204	"	Elk Garden...	Wm. Moore....	4-4, '04	English....	53	Miner....	Fall of coal....	Leg broken and body bruised.
205	Preston...	Tunnelton...	James Sheets....	10-10, '03	American, always	30	Miner....	Fall of rock....	Back broken.
206	"	Austen No. 2...	Amos Wright....	12-16, '03	American, sev yrs	30	Miner....	Fall of slate....	Leg fractured.
207	"	Austen No. 1...	Wm. Carter....	3-22, '04	Negro....	27	Slaveman....	Blown out shot....	Face and arms burned.
208	"	Shrader....	Tony Albert....	4-7, '04	Italian....	35	Miner....	Fall of coal....	Thigh and foot bruised.
209	Randolph.	Weaver No. 1...	Dennis Markley...	1-27, '04	American, 4 years	18	Driver....	Loose coal (inside)...	Foot bruised.
210	"	Weaver No. 2...	Orpha Lawson....	2-16, '04	American, 2 years	14	Trapper....	Horse falling (inside)...	Arm broken.
211	Taylor...	No. 41 (D.C. & C. Co.)	Bruce Lake....	9-1, '03	American, sev yrs	35	Rope rider....	Mine car (inside)....	Foot mashed.

FATAL ACCIDENTS FOR THE YEAR ENDING JUNE 30th, 1904.

Hancock County.—Oct. 27, 1903. Salvatore Di Maria, Marquet No. 1 Mine, was mining when part of the roof gave way and caught him, breaking his neck. The accident occurred in the face of an entry.

Harrison County.—Oct. 26, 1903. Andy Malurchok, Jr., Pooz Mine, was lying on his side making an under-cut when a portion of loose coal fell on him. His father was with him and should have cautioned him not to go under the loose coal.

Oct. 29, 1903. Charles E. Starr, Superintendent at the Two Lick Mine, was having a car dropped down the incline when sheave wheel at the top of the incline broke loose from its fastenings, allowing the car to run down the incline at a high rate of speed, which gave Starr no time to get out of the way of the rope, which caught his legs, breaking and crushing them.

Feb. 4, 1904. Joe O'Dell, Waldo Mine, was employed as Outside Foreman at this mine. At the time of the accident he was assisting to load box cars and was standing on bars to which aprons are attached. He called for one more dump to finish a car and when basket was lowered he was caught between basket and bars.

Feb. 8, 1904. Robert Ilderton, Pinnickinnick Mine, was a practical miner and at the time of the accident he was mining coal in 3rd right heading off main entry. He was trimming down roof coal near the face when a small amount of head coal and slate fell, crushing him.

April 18, died April 19, 1904. John Vernosky, Interstate Mine, was seated on the machine board in room No. 15, 3rd left heading, operating the machine when a piece of slate weighing between 300 and 400 lbs. fell on his shoulders and head. He knew the roof was unsafe, but said it would stay up until he got the place cut.

Marion County.—July 8, 1903. Jacob Yannish, Monongah No. 3 Mine, had fired a shot which knocked some coal down and loosened some more. While he was loading the coal which fell and had gotten close up under the loose coal, which he had neglected to take down, it fell on him, killing him instantly.

July 25, 1903. Stiney Koslos, Monongah No. 3 Mine, with his partner had taken down the roof coal and were re-timbering the slate when a piece of slate, weighing possibly 1,000 lbs., fell between props, catching him.

Sept. 9, died Oct. 5, 1903. George W. Yeager, Gaston Mine, was working under some slate which he had tried to pull down when it fell on him, causing an injury on top of head, which affected spinal cord. When he found that he could pull down the slate he should have timbered it.

Sept. 24, 1903. E. H. Seaton, West Fairmont Shaft Mine, was loading coal after a machine when a pot of slate fell from the roof, about 8 feet from the face of the working place, catching him. The place had been examined and was considered safe.

Sept. 26, 1903. John C. Riggins, Mine Boss at the Pennois Mine, was having the pillars drawn and was giving the work his personal attention

as he considered the place unsafe. He went into this working place a short time before he was killed and had the driver take out the loaded car in order that it might be clear of a fall. A small block of coal had been left standing and Riggins struck it several times with a pick, when it gave way allowing the slate lying on it to fall on him.

Nov. 9, 1903. Toney Wells, West Fairmont Shaft Mine, had fired a shot and was loading a car when a pot of slate, weighing about 2 tons, fell on him. If he had sounded the roof and found it was dangerous and had used the timber at hand for that purpose the accident would have been prevented.

Nov. 11, 1903. John Moot, Monongah No. 6 Mine, was loading a car and working directly under a pot in roof when the pot of slate fell, striking him across the back. Had he sounded the roof after shooting the coal he would have discovered the pot in roof was loose and could have propped it.

Dec. 7, 1903. John Yonsco, Montana Mine, was mining coal with another man. They were making a cut through to start the rib back. The pillars on the next heading had been drawn, which caused a squeeze on these ribs. They were mining a shot and mined back to squeeze crack, when the mining fell out, mashing Yonsco through head and shoulders. His partner was not injured.

Jan. 12, 1904. Sam Hughes, Pennois Mine, was mining when he was caught by a fall of draw slate. He said after the accident that he had sounded the roof and that it appeared solid, but that he did not place any timber under a piece of projecting slate and after he had mined about two hours it fell on him, causing injuries from the effects of which he died.

Jan. 23, died Jan. 24, 1904. James Audia, New England Mine, was trying to get on a trip of loaded cars to ride out when he fell under the cars, several of the cars running over him before the trip could be stopped.

Feb. 15, 1904. Harry Haddix, Gaston Mine, was taking a mine car into a room, when his mule left the track, going between the props. The car was thrown around, knocking out a prop and causing a fall of slate, which caught Haddix on the head and chest, killing him instantly.

March 1, died March 7, 1904. Carlman Cza, Chiefton Mine, was at work when a miner in an adjoining heading put off two shots, which blew through into Cza's heading, throwing coal against him. Cza had been notified to get out of the way, but had refused to get a safe distance away from the shot.

March 29, 1904. George Sappo, Murray Mine, was drawing a pillar; had left his regular working place and gone around behind it. No one knows what he was doing there, but while there, which was only a short time, about a ton of roof coal fell, striking him on the head and face, killing him instantly. There is no known reason for his being in the place where the accident occurred.

June 1, 1904. John Penney, Chiefton Mine, had put off a shot and loaded one car, he then went up to the coal to pull it down with his pick, when it gave way suddenly and fell, catching him before he could get out of the way.

June 18, died June 19, 1904. Salvatore Eates, Monongah No. 6 Mine,

was killed by a fall of draw slate. At the time of this accident the machine men had just finished making an under-cut and were moving the machine away when the injured man stepped in behind the machine. A pot of slate, which was directly over the machine while the machine men were making the cut, fell on him. One of the machine men had sounded the roof and thought it was safe.

June 28, 1904. Giovanni Sorzionni, New England Mine, was pushing an empty car into a room and stepped aside to let a driver pass with a trip of cars. The empty car not being far enough in the room was struck by trip and pushed farther into the room, catching him between car and rib.

Marshall County.—Aug. 28, died Aug. 29, 1903. Mike Jope, Glendale Mine, was killed by a fall of stone in room.

April 12, 1904. Henry Lause, Hitchman Mine, was shearing the middle of his shot and he neglected to sprag his stone, which was a little heavier in front than it was at the back, which caused it to let go with little or no warning, catching him squarely under it.

Clay County.—March 24, 1904. Michael Beane, Dorfee Mine, was standing on tippie when empty mine car broke away on incline and struck him, knocking him off the tippie and killed him almost instantly.

Kanawha County.—Nov. 4, 1903. Jeff Price, Campbells Creek No. 1 Mine, was crushed by falling slate. The roof was bad on account of robbing the mine. Others were with him, but were not hurt.

Nov. 9, 1904. Richard Toney, Winifrede West Mine, was killed by a fall of slate. From all appearances he had fired a shot and commenced to load a car when the slate fell. Two posts had been set under this loose piece, but near one edge and the shot loosened the other edge.

Nov. 13, 1903. Wm. Stephens, Acme Mine, was loading coal with his father, when a piece of draw slate fell on him while he was in a stooping position. The slate was considered safe.

Jan. 28, 1904. Andy Cochran, Campbells Creek No. 1 Mine, was killed by slate falling from roof of room.

Feb. 1, 1904. Archie Hudnall, Kellys Creek Mine, was at work in the mine with his father and brother. They had just fired a shot and after removing the coal they went to work under the slate, which had been loosened by the shot without first trying to take it down or prop it. His father was injured by this same fall.

Feb. 3, died Feb. 5, 1904. Harry C. Thompson, United Gas Mine, was pouring powder from keg into cartridge with his lamp in his cap when a spark dropped from his lamp, igniting his cartridge and it is supposed this exploded the keg of powder.

March 16, 1904. Frank Johnson, Robinson No. 5 Mine, had fired a shot which failed to bring the coal and while lying down making an under-cut so as to bring the coal it fell on his head.

April 2, 1904. John Lloyd, Wacomah Mine, was in blacksmith shop and ran across head of plane and was struck by an empty car of a run-away trip on incline.

Putnam County.—July 11, 1903. Nuster Saunders, Plymorth Mine, was coming out with loaded car and in some way he was caught between top and coal in car, crushing his head.

Sep. 26, 1903. George Coleman, Pocatalico Mine, had a standing shot, and did not sprag or post same and the slate fell on him.

June 10, 1904. Wade Lawson, Plymouth Mine, had been in a room after a loaded car and was coming out, walking ahead of his mules, when a piece of slate fell on him.

Fayette County.—Aug. 5, 1903. Wm. Wysong, Prudence Mine, was driving an entry and had gone back some distance from the face to take off a slab of side coal in order to straighten the place. He neglected to either leave a sprag or set props and the top coal and slate fell on him.

Sep. 16, 1903. August Deisterhoff, Harvey Mine, was killed by a blast in the coal. He evidently went back too soon after lighting the shot.

Sep. 26, 1903. J. C. McCutcheon, Hemlock Hollow Mine, was making a turnout near drift mouth. Slips ran across entry and he had posts up and was taking off corner when in loading last car a wedge shaped piece fell on him.

Oct. 6, 1903. Wm. Brown, Whipple Mine, was on the double heading waiting for cars. A trip of empty cars broke loose from motor coming in on parting. Several men and mules stepped out of the way, as there was plenty of room on both sides of the track, but it seems that Brown became confused and stepped directly in front of the cars.

Oct. 10, 1903. Donna Foosa, Star Mine, is supposed to have knocked a prop out, thus allowing the slate to fall on him. No one was with him at the time of the accident.

Oct. 23, 1903. I. D. Lee, Boomer No. 3 Mine, was coming out of room with loaded car, and on entering the entry he placed sprags in wheel and then attempted to jump on front bumper, when his foot slipped and he fell in front of car.

Nov. 9, 1903. Burt Walker, Edward P. Wilkinson and Wm. C. Smith, K. & H. Mine No. 117, were on the tippie when two loaded mine cars ran through the safety chocks and down incline. All three men were struck by cars and instantly killed.

Nov. 10, 1903. Tom Johnson, Collins Mine, was blowing down a boiler, when the blow-off pipe exploded, striking him on the head, killing him instantly.

Nov. 28, died Nov. 29, 1903. James P. Britt, Blume Mine, with three other men, was in car going in the mine, when the driver let it get beyond his control, which caused the car to leave the track, running about ten feet, striking a post and knocking it out, which allowed the slate fall on the occupants, injuring Britt so severely that he died the next day.

Dec. 11, 1903. James F. Hale, Scarbro Mine, was crossing the motor trip between the cars in order to get a convenient place on the trip to ride, and in so doing he must have slipped and fallen with his head over the live wire and his body between the cars. Some attempts were made to get him off the wire, but on account of his clothes being damp those attempting to do so were knocked down. The power had to be turned off before he could be gotten off, at which time he was dead.

Dec. 12, 1903. Isaac Cromwell, Ephraim Creek Mine, fell in front of monitor and same knocked him off trestle.

Dec. 16, died Dec. 18, 1903. Eva Mickey, Rush Run Mine, was riding on mine car and fell off, car running over him.

Dec. 16, 1903. Robert Peckins, Rush Run Mine, was standing on railroad track, at the foot of incline, when the draw bar of the last of a trip of loaded cars broke. All three cars came to the bottom of the incline and struck him, killing him. He was not an employe of the coal company.

Jan. 11, 1904. Wm. Mitchell, Brooklyn Mine, was on the cars to ride down the incline and through some cause the rope slipped off the main sheave wheel, thus causing the trip to drop the extra distance over the knuckle, and in consequence coming up with a very sudden jerk, breaking the socket of the rope in two. Mitchell, after realizing what was the matter, jumped off and in so doing struck his head against some hard substance.

Jan. 19, 1904. C. W. Kelley, Red Ash Mine, was loading coal at face of room, when a piece of slate fell from roof, killing him.

Jan. 25, 1904. M. A. Grimmett, Prudence Mine, had taken out nearly all the coal from his cut and as he neglected to timber the draw slate it fell on him, killing him instantly.

Jan. 29, 1904. Walter Craige, Boomer No. 3 Mine, was employed on the tippie. The pin on rear bumper came out, when the car was going over knuckle at the drum house, allowing the car to run down incline, knocking Craige off the tippie.

Feb. 26, 1904. C. L. Adkins, Macdonald Mine, was in mines presumably to get work and was following loaded trip up heavy grade, when pull bar near head end of trip broke, allowing cars to run back, catching him and killing him instantly. He was warned not to follow trip until it had landed on top of hill, as it was against the rules of the mine.

March 1, 1904. John M. Griffith, K. & H. Mine No. 117, had unloaded mine machine and was getting ready to place machine in position for cutting coal, had stepped back on roadway for the purpose of getting an iron bar used for moving the machine and while in a stooping position was caught by a fall of slate.

March 1, 1904. Henry L. Dunbar, Macdonald Mine, was drawing entry stumps, when piece of sandstone cut off on three sides by surface seams became detached and fell, catching him through the chest as he was leaning across a car to place some lumps of coal around side of car.

March 30, 1904. Wince Goody, Collins Mine, was putting in a cut when a piece of top coal close to the face broke off, breaking his neck. The place was well timbered and they had no idea that there was any danger in the piece of top coal.

April 5, 1904. Robert Pritchett, Prudence Mine, was driving an entry, and he was just in the act of putting in hole to place header when slate came down and caught both Pritchett and J. G. Carter, foreman of work, killing Pritchett and injuring Carter.

April 13, 1904. Sandy Sawders, California Mine, was killed by a fall of slate at face of room.

April 30, died May 14, 1904. George Ramsey, K. & H. Mine No. 117, was shoveling coal about 6 feet from the face of room when slate fell, catching him.

May 25, 1904. Frank Decater, Kay Moor No. 2 Mine, was loading a car of coal and was caught by a fall of slate. He had noticed that there was

a crack in the slate, but did not anticipate any danger, so did not set any posts under it.

June 3, 1904. Henry Ainscough, Star Mine, with a driver and another man had moved a loaded car from face of working place, where a large piece of slate had fallen on car to a point some 300 feet away to take the slate off. After being warned of putting the slate off the car at this point, slipped the slate from the car, which knocked out a post thus allowing slate to fall on him, killing him instantly.

June 16, 1904. David Cox and George Malcolm, Kanawha Gas Mine, were employed to work two rooms. They had just finished loading coal in one room and were on their way to shoot coal in the other room when they were caught by a fall of slate on roadway.

June 16, 1904. Joseph T. Sprouse, Newlyn Mine, had fired a shot just before going to dinner. When he returned afterwards he went immediately to mining underneath the slate, which apparently he could not see was loose.

June 23, died June 28, 1904. John Dean, Red Ash Mine, was making an undercut when the coal and slate fell on him. He had fired a shot the evening previous, and when he went to work on the morning of the 23rd he went to work under the piece of hanging top coal and slate.

Raleigh County.—Nov. 5, 1903. James Newman, Lanark Mine, was run over by mine locomotive and instantly killed. It seems the mine cars are dropped down the narrow gauge railroad to the drum house in front of a small steam engine. These cars by some means became uncoupled from the engine, and Newman fell from the cars directly in front of the engine.

Dec. 21, 1903. Guiseppe Machelona, Raleigh No. 4 Mine, was killed by a fall of slate. The piece which fell had the appearance of a slip.

Jan. 28, 1904. George Lusher, Stonewall Mine No. 3, drove into the mine at a reckless rate of speed, and while passing over a parting the car left the track and struck some mine timbers, knocking them down and causing slate to fall from the top, crushing him.

Feb. 8, died Feb. 9, 1904. Author Cooper, Lanark Mine, leaving place where he should have been at work he walked out on main entry parting, passing by car pulled by a mule. After going a few feet the mule fell and the car becoming unhooked from mule on a steep grade it ran back, catching Cooper and dragging him about 90 feet, injuring him so severely he died the next day.

June 3, died June 4, 1904. Grant Bryant, Stonewall Mine No. 3, had left his regular working place and went up to work with a friend, Henry Toney. Toney advised him against drawing a certain piece of slate from the top before setting additional timbers. Bryant insisted on pulling down the slate and was struck on back by piece.

McDowell County.—July 1, 1903. Richard Moore, Jr., Turkey Gap Mine, was employed as switch boy and fell asleep at his work. He was run over by trip of mine cars before it could be stopped.

Aug. 4, 1903. John Fultz, Keystone Mine, was killed by a fall of slate. He failed to set a prop when told to do so.

Aug. 28, 1903. Edward S. Thompson, Ashland Mine, was killed by a fall of slate. He had failed to prop roof.

Sep. 15, 1903. Noah Bange, Algoma Mine, was killed by a fall of slate. The roof was considered safe.

Sep. 26, 1903. B. Clemmans, McDowell Mine, was killed by a fall of slate.

Oct. 15, 1903. Ben Peck, Pulaski Mine, stepped in front of a coal car being dropped from the tippie and attempted to couple it to the cars standing on the track below the tippie, and in some way missed his footing and fell, the car running over him.

Dec. 2, 1903. Cloyd E. Keene, Tidewater Mine, was surveying an entry when he was caught by a fall of slate. The man who was assisting him heard the slate working and called to him to come out. He ran to one side and was caught three feet from the end, had he run the other way he would have been safe.

Dec. 7, 1903. George Snell, Empire Mine, was killed by a fall of slate.

Dec. 9, 1903. E. M. Perry, McDowell Mine, was killed by a fall of slate.

Jan. 7, 1904. Harry Duley, Tug River Mine, was killed by a fall of slate.

Jan. 20, 1904. John Williams, Elk Ridge Mine, was working splitting a pillar, the split was in about twenty feet from the entry, when a piece of slate fell on him, killing him instantly.

Jan. 26, 1904. Peter Gravely, Elk Ridge Mine, was killed by a fall of slate. The slate fell on a loaded mine car and turned the car over, letting the slate roll on him.

Feb. 18, 1904. Robert Pugh, Keystone Mine, was loading a car of slate, when some top slate fell on him, killing him almost instantly.

Feb. 29, 1904. Sidney Thornton, Algoma Mine, was taking out an old pillar between two entries and as he was breaking through the top of one of the entries fell in such quantities that he was entirely covered up.

March 7, 1904. Steve Yancho, Greenbrier Mine, was killed by a slab of coal falling on him.

March 15, died March 20, 1904. David Rakes, Ashland Mine, was running a mine far from entry to his room, he failed to get off the car when it came near the face of his room and was squeezed between the bumper and face of room.

April 6, 1904. C. S. Peel, Empire Mine, was pushing on rear end of car to assist driver in pulling loaded car up grade, when the mule stopped, allowing the car to run back, crushing him between it and face.

April 11, 1904. Sam Poole, Eureka Mine, was helping set a prop when he was caught under a fall of slate and killed.

May 18, 1904. Wm. Carter, Turkey Gap Mine, was killed by a fall of slate.

May 20, 1904. H. G. Bishop, Pulaski Mine, had made a shot and the coal hung. He attempted to make a deeper undercut with his pick and bring down the coal, when it fell on him.

May 27, 1904. Henry Locket, Turkey Gap Mine, was employed as a spragger, but had gone into this room to help his brother, and while there the rock fell on him, killing him.

June 3, 1904. Frank Tukoce, McDowell Mine, was working with a force of men pulling down slate, when the slate fell, catching him.

June 9, 1904. Elestine Ramella, Welch Mine, was killed by a fall of

slate in face of working place. The accident may have been averted had he set the necessary timbers as instructed so to do.

June 13, 1904. Edward Loche, Powhatan Mine, tried to pull down a piece of slate, but failed to do so, and thinking it was safe went to work under it. After working a short time it fell on him.

June 25, 1904. Leonard Harsten, Empire Mine, was employed as a trapper. He must have gone to sleep, and when motor pushing trip of empties up this entry reached this door it was found swinging open. This suggested something wrong, motor was stopped and Harsten was found under trip, fourteen cars having passed over him.

Mercer County.—Aug. 8, 1903. Wm. Adams, Mill Creek Mine, had put off a shot that failed to pull the cut of coal. On returning he went to work pulling down same and the whole cut fell, catching him and killing him.

Sep. 3, died Sep. 6, 1903. Fletcher Adams, Louisville Mine, was pulling down coal when a piece of slate fell on him, injuring him so severely that he died in a few days.

Nov. 19, 1903. Peter Spears, Buckeye Mine, was working with another man. They failed to timber the place as it should have been timbered or as they were instructed to do, and Spears was caught by a fall of slate.

Feb. 23, 1904. Stewart Little, Goodwill Mine, was killed by a fall of slate. He knew the slate was loose and should have pulled it down.

Feb. 23, 1904. Eli Bare, Crane Creek Mine, was employed as a trapper in this mine. From all the evidence that could be gathered he lay down on the track and went to sleep. He left his signal light burning, allowing the cars to come on in. He was notified a short time before he was killed to get off the track.

May 17, 1904. Crockett Brown, Thomas Mine, was killed by a fall of slate.

Mingo County.—July 16, 1903. John V. Buskirk, Rutherford Mine, was killed by a fall of slate.

Aug. 6, 1903. Albert See, Pappoose Mine, was pulling down slate, and while doing so got immediately under it and struck it with a hammer, when it fell on him.

Aug. 27, 1903. Steve Stubbo, Thacker Mine, was killed by a fall of slate. The place was thought to be safe.

Dec. 22, 1903. Fred Brinkman, Grapevine Mine, was killed by the premature discharge of a shot while mining coal.

Jan. 27, 1904. T. J. Bartram, Lick Fork Mine, was killed by a fall of slate.

Feb. 22, 1904. John Hackerdish, Red Jacket Mine, was robbing pillars and failed to prop his place, working under a loose piece of slate, which fell on him, killing him.

April 6, 1904. John Froe and Dump Mason, Red Jacket Mine, were riding down supply plane, contrary to orders, when the rope broke, dropping them both to the bottom, killing both.

May 11, 1904. Marino Rocco, Margaret Mine, was killed by a fall of slate.

Barbour County.—July 18, 1903. Thos. J. Vowles, Philippi Mine, was with other laborers from tippie helping to put motor on the track and

they were using a 30 lb. steel rail as a lever. In lowering same Vowles failed to get off rail as soon as other men, when it threw him under the rail, which in falling struck him on the head.

Nov. 24, 1903. Robert Bernosky, John Brown and John Painter, Century Shaft, were killed by an explosion of powder and dust. A thorough investigation was made by mine inspector Westlake, and from the evidence found it seemed conclusive that a full keg of powder had been exploded in a cross-cut between rooms 22 and 23 on the B. Southwest heading, which caused the coal dust to become inflamed, producing an explosion which burned each of the above named persons and rendering the air unfit for the support of life, thus suffocating or poisoning the victims through the inhalation of the vitiated air or after gases.

The following is the finding of the Jury, which made an investigation as to the cause of the death of the three victims of the disaster:
State of West Virginia,

County of Barbour, To-Wit:

An inquisition taken at Century, in the County of Barbour, on the 25th day of November, before J. F. Chenowith, J. P., upon the view of the bodies of John Painter, Robert Bernosky and John Brown, there lying dead, the Jurors sworn to inquire when, where and by what means the said John Painter, Robert Bernosky and John Brown came to their death, upon their oaths do say that John Painter, Robert Bernosky and John Brown came to their death, November 24th, 1903, by an explosion in the Century Coal Company's mine, caused by the explosion of a keg of powder ignited by Robert Bernosky, or some one else and that the Century Coal Company is in no way responsible for the explosion or death of the said John Painter, Robert Bernosky and John Brown.

GUINN NEELY, *Jurors*

W. H. CARTER,

W. S. WILSON,

EDW. G. BRYDON,

E. J. TAYLOR,

U. S. G. LEWIS.

Witnesses:

A. B. McMURDO,
EDWARD WILLIAMS,
THOS. THOMAS,
GEO. STROMBROWKOS,
LEE STARKEY,
DR. J. L. HANKINS,
J. WESTLAKE.
J. C. WARD,
THOS. ROBINSON,
FRED. BLACKFORD,
GEO. ZUEAS,
W. E. SMITH,
A. J. ZIRKLE,

In testimony the said J. F. Chenowith, Justice, and Jurors hereto set their seals.

(Signed)

J. F. CHENOWITH, J. P.

Nov. 25th, 1903.

Dec. 30, 1903. Joe Louch, Berryburg West Mine, bored his hole too high and caused the top slate to break loose, a large piece falling on him after he started to load his car.

Grant County.—Nov. 24, 1903. Toney Albert, Henry Shaft Mine, entered a place that he was instructed not to go into and was killed by an explosion of gas.

Dec. 28, 1903. Frank Joe, Henry Shaft Mine, had his head caught between door and jam, of door of which he had charge. He had opened the door and then let it swing shut.

March 15, 1904. Alex Krupha and C. E. Henderson, Henry Shaft Mine No. 33, were killed by an explosion of gas. They were laying a switch in 1st left cross-cut and came in contact with a body of explosive gas. The place had been examined by the Fire Boss in the morning and was found free of noxious gases.

Mineral County.—Jan. 12, 1904. W. S. Barker, No. 9 Mine of the Davis C. & C. Co., was killed by a fall of slate. The roof had been examined a few minutes before the accident and was thought safe.

April 12, 1904. James Dobson, Virginia Mine, was killed by a fall of coal.

Preston County.—Aug. 15, 1903. James M. McGinniss, Tunnelton No. 1 Mine, was killed by a fall of slate while driving in the mine.

Oct. 13, 1903. John Yates, Corinth Mine, was killed by a fall of slate about 35 feet from face of room.

Nov. 5, 1903. Walter H. Baley, Austen No. 1 Mine, was tamping a charge of dynamite when it exploded. The accident was due to his carelessness in tamping the shot.

Nov. 17, 1903. Vincenzo Ferrari, Tunnelton Nos. 2 & 3 Mine, was killed by a fall of slate which was close to the face of the coal, in fact a part of it extended in over the coal.

Nov. 18, 1903. Yanko Ziokovie, Austen No. 2 Mine, was killed by a fall of draw slate.

Jan. 6, died Jan. 16, 1904. Thomas Burdis, Victoria Mine, was caught by a fall of slate and died ten days later from the injuries he received.

March 21, 1904. George Fiorra, Austen No. 2 Mine, had removed a post which let some loose slate down on him, killing him instantly.

Tucker County.—July 6, 1903. John Paul, Mine No. 36, was mining cut in rib. There was a smooth draw slate about two inches thick over coal, which was cracked and when crack was undermined, coal fell without warning.

July 13, 1903. Fred D. Reeves, Mine No. 37, was riding on front of locomotive on haulage road to timber dock when slate fell, striking him on the head, causing his death.

Oct. 9, 1903. Tally Thornton, Mine No. 37, went around to knock to his partner at a place where they were driving through from heading. There was some misunderstanding, as his partner fired a shot while he was knocking and blew some slate through, killing Thornton.

Nov. 16, 1903. John Selchick, Shaft Mine No. 34, was going to do some work in the shaft and it is thought that he supposed the cage was at the same place where he had left it only a few minutes before, but instead it had been lowered about 5 feet, so that a gang of men could proceed

with their work at the bottom of the shaft. On returning to the top of shaft Selchick stepped on what he supposed was the cage, but instead fell about 5 feet, when he struck the cage and then fell off the side to the bottom, a distance of 180 feet.

Jan. 20, 1904. John Radrata, Douglas No. 1 Mine, was killed by a fall of coal.

Feb. 8, 1904. Albert and Waid Cousins, Mine No. 23, were in act of setting timber when slate fell, killing both.

Feb. 27, 1904. Pete Demise, Shaft Mine No. 34, was mining the coal too heavy, there being a slip at the face and when weakened it fell on him.

May 24, 1904. George Jenkins, Douglas No. 1, was killed by a fall of slate while timbering on the main heading. Mr. Jenkins was employed as Mine Foreman, and was going through the mines accompanied by a small boy, and hearing the slate beginning to fall he jumped back, knocking the boy so far away that he escaped injury, but not far enough to save himself.

THE FOLLOWING PERSONS WERE KILLED AT THE MINES IN THIS STATE, BUT NOT THROUGH ANY DEFECT IN THE MINE EQUIPMENT OR ANYTHING PERTAINING THERETO.

Putnam County.—Sep. 25, 1903. W. L. Sterne was walking along the main line and was run over by a locomotive going to the Otto-Marmet C. & M. Co's mines. He was deaf and dumb, and was walking along track with his lantern in his hand, but it was not lighted. He was employed as a section hand, but was not on duty and the accident occurred after dark.

June 1, 1904. Alfred Woodson, Pocatalico Mine, was employed as a driver. He was shot by a miner, inside of the mine, four times with a revolver.

Fayette County.—May 8, 1904. Tom Banks, St. Clair No. 2 Mine, was found dead about 50 feet from mouth of mine. The doctors said his heart was in a very bad condition and it is supposed he died from heart failure.

CONDITION OF THE MINES.



MINE INSPECTORS.

James W. Paul, Chief Mine Inspector, Charleston.

FIRST DISTRICT.

Isaac M. Kelley, Inspector, Clarksburg.

SECOND DISTRICT.

Earl A. Henry, Inspector, Clifton.

THIRD DISTRICT.

Edward Pinkney, Inspector, Montgomery.

FOURTH DISTRICT.

Samuel S. Cooper, Inspector, Keystone.

FIFTH DISTRICT.

Jerry Westlake, Inspector, Elm Grove.

*MINE INSPECTION DISTRICTS.**FIRST DISTRICT.*

Counties of Braxton, *Brooke*, Doddridge, *Hancock*, *Harrison*, Lewis, *Marion*, *Marshall*, *Monongalia*, *Ohio*, Pleasants, Ritchie, Tyler, Upshur, Webster and Wetzell.

SECOND DISTRICT.

Counties of Cabell, Calhoun, *Clay*, Gilmer, Jackson, *Kanawha*, *Lincoln*, *Mason*, *Putnam*, Roane, Wirt, Wood and *Fayette* in part.

THIRD DISTRICT.

Counties of *Fayette* in part, Greenbrier, Monroe, *Nicholas*, Pocahontas, *Raleigh* and Summers.

FOURTH DISTRICT.

Counties of Boone, *Logan*, *Mercer*, *Mingo*, *McDowell*, Wayne and Wyoming.

FIFTH DISTRICT.

Counties of *Barbour*, Berkeley, *Grant*, Hardy, Hampshire, Jefferson, *Mineral*, Morgan, Pendleton, *Preston*, *Randolph*, *Taylor* and *Tucker*.

By reason of the large number of mines in the First and Third Districts the Inspector of the Fifth District has been detailed to inspect the mines in the Counties of Brooke, Hancock, Ohio, and Marshall, and the Second District Inspector has been detailed to inspect the mines north of the Kanawha and west of the Gauley Rivers in Fayette County.

This plan has been in effect since July 1, 1901.

Italicized counties embrace operating coal mines.

FIRST DISTRICT.

GENERAL SUMMARY OF THE FIRST DISTRICT FOR THE
YEAR ENDING JUNE 30, 1904.

COUNTY.	Number of Open-ings	EMPLOYES.								Grand Total.	No. of Men Killed.	PRODUCTION.	
		Inside.					Outside.					Coal (tons of 2240 lbs.)	Coke (tons of 2000 lbs.)
		Pick Miners.	Machine Miners.	Machine Runners & Helpers.	Laborers.	Total.	Laborers.	Coke Workers.	Total.				
Brooke.....	8	136	32	16	41	225	29	.....	29	254	37,804	.....
Hancock.....	4	82	60	8	16	166	14	.....	14	180	69,700	.....
Harrison....	45	607	1,026	250	678	2,561	478	2	480	3,041	2,445,202	621	
Marion.....	25	1,022	777	172	689	2,680	525	168	693	3,353	2,785,350	102,416	
Monongalia..	5	98	48	15	46	207	29	22	51	258	194,540	22,999	
Marshall....	8	58	288	46	76	468	56	.....	56	524	345,273	.....
Ohio.....	7	150	.....	.....	32	182	18	.....	18	200	101,207	.....
Totals	102	2,153	2,231	507	1,578	6,469	1,149	193	1,341	7,810	5,979,076	126,036	

OFFICE OF THE FIRST DISTRICT MINE INSPECTOR,

CLARKSBURG, W. VA., July 5, 1904.

HON. JAMES W. PAUL,

Chief Mine Inspector,

Charleston, W. Va.

SIR:—I have the honor to submit my annual report of work in the First Mining District of West Virginia, for the year ending June 30th, 1904.

This district embraces the greater part of the Pittsburg coal formation in the State, and the workings are nearly all in this well known and valuable seam. At this date there are 102 mines in the district which require inspection, and of this number there are 77 in the three counties of Harrison, Marion and Monongalia, which have been assigned me for inspection, there being a gain of four in the counties named since my last annual report. The other mines in the district, under orders from your office, are for the present assigned the inspector of the fifth district. The older mines have been extended and kept fully up to all requirements of the product mined.

Practically all of the mines in the district are equipped with modern and up to date machinery, and supplied with all means and designs tending to make the work of mining successful, provide against accidents and to prevent injury to the miners.

The production from this district has been somewhat impeded by lack of transportation facilities, not so much within the immediate vicinity as upon connecting carriers and especially on the carrying lines to the lakes, over which large quantities of coal from this district reaches a market. The lake traffic was somewhat deranged by differences between the laborers and the ship-owners, but these differences have been ad-

justed and the production of our mines is now unrestricted, work is more active and conditions satisfactory.

The mines now in operation furnish an output sufficient to tax to the utmost the carrying capacity of the railroads entering the district, and the present number in operation can, without difficulty, greatly increase their output, should the markets require it and the railroads prove able to handle the freight.

New houses have been built for employes as they were required and those built were of the same standard as prevail in this district, being well constructed frame houses, large, and comfortable, with metal or slate roofs, modern appliances, and ground sufficient to render them healthful, desirable homes. I can say, from personal observation in mining regions in almost every part of the country, that I think the miners in this district are better housed than in any other section of the United States.

During the year just ended relations between the employers and employes have been most cordial, governed by mutual confidence and showing the most friendly feeling and sympathy. There have been no labor troubles or dissensions, and the mine owners have liberally shared with their workmen the profits from the mines, paying them satisfactory wages, and affording them steady employment to the utmost of their ability.

Special care has been taken by the mine owners and local management to protect their workmen from injury to body or danger of death. They endeavor to comply with all State laws on this subject and do not hesitate to incur any additional expense to secure additional safety to that required to fulfil the legal requirements.

The number of accidents resulting fatally, or in serious injuries, while low in comparison with other regions, is no doubt much higher than it would be if the workmen were of a more intelligent class, and more able to co-operate with their employers in their efforts to provide for their safety. It must be borne in mind that of the thousands employed in coal mining in this district a great majority are foreigners, unable to speak our language, and men who have not been trained to exercise care even for their own protection. The great majority of them are men who become good citizens, quiet, peaceable and industrious, but they require the constant care of those placed over them, in order to induce them to protect their health and lives.

During the year there were 23 accidents resulting fatally and 65 causing severe injury. In twenty-five instances I have made thorough, personal investigations into the circumstances surrounding these occurrences, and the causes leading up to the same, and have submitted detailed reports to your office, which are on file there and to which I refer. It will appear from these reports, that in almost every instance the unfortunate occurrence was caused by the persistent neglect of the miner to make use of the facilities providing for his own safety placed on hand by his employers. We know this is largely due to the fact that the men are of the above named class, and are hard to convince that any precautions are necessary on their part.

In addition to those special reports, I have made two hundred and thirty-one regular inspections during the year just closed and submitted

the regular monthly reports thereof as required by law. I have familiarized myself with the schemes, plans and development of the different mines, and with the systems of drainage, ventilation and sanitation locally employed, and am satisfied, that, local conditions considered, the mines are fully up to the standard required. It has been my intention to have them excel rather than fall short of those requirements, and in this work I have received at all times the hearty co-operation of the mine owners and mine managers.

I have by careful examination satisfied myself of the practical knowledge of the mine foremen, and their fitness for their positions and have met with the support of the mine owners in my efforts to see that only those best qualified with the largest practical knowledge and good judgment hold positions which place under their care the lives and health of the workmen. The system of promoting efficient, practical miners to these positions, is proving its worth, and nothing has ever occurred, in my judgment, that would justify its abandonment and the substitution of theoretical training for practical knowledge.

I think a thorough application of the laws now in force in this State will meet every requirement, and have nothing to suggest in the way of changes except the minor provisions urged in my last annual report.

In my judgment, the careful ventilation and up to date condition of the mines in this district, render impossible such catastrophes as at Cheswick Pa., which shocked the country during the past year.

In addition to my regular report I herewith submit a revised map made for the Federal Coal & Coke Co., which to my mind should be applied and used in the development of all coal fields.

The system generally followed, in the development of mines not only in this State, but in other States, is turning rooms off both heading and return air-courses. This should be discontinued, more particularly in all mines of a gaseous nature for the following reasons:

First. Because it prevents the proper ventilation of each of these headings, on account of doors located between headings which must be opened each time a trip comes in or goes out, causing the current of air to be broken.

Second. Under this system all of the gases, thrown off from working places on the intake of air, including powder smoke and other impurities are passed along the working face of all the places on the return heading making it unhealthy and, where gas exists, dangerous.

Third. In case of any place on the intake heading or on the return heading breaking through, to places coming to meet them from heading on their right or left, the air current is broken at that point and two districts are robbed of ventilation.

Fourth. With this system of development one-half of the coal must be worked to the dip. This means wet work and an up-hill haul.

In conclusion I wish to thank the mine owners, operators and local managers, and the miners for the courtesies received at their hands during the year just closed, and also to thank you for your able counsel and advice so promptly given. Yours very truly,

ISAAC M. KELLEY,
Mine Inspector 1st District.

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TILDEN FOUNDATIONS.

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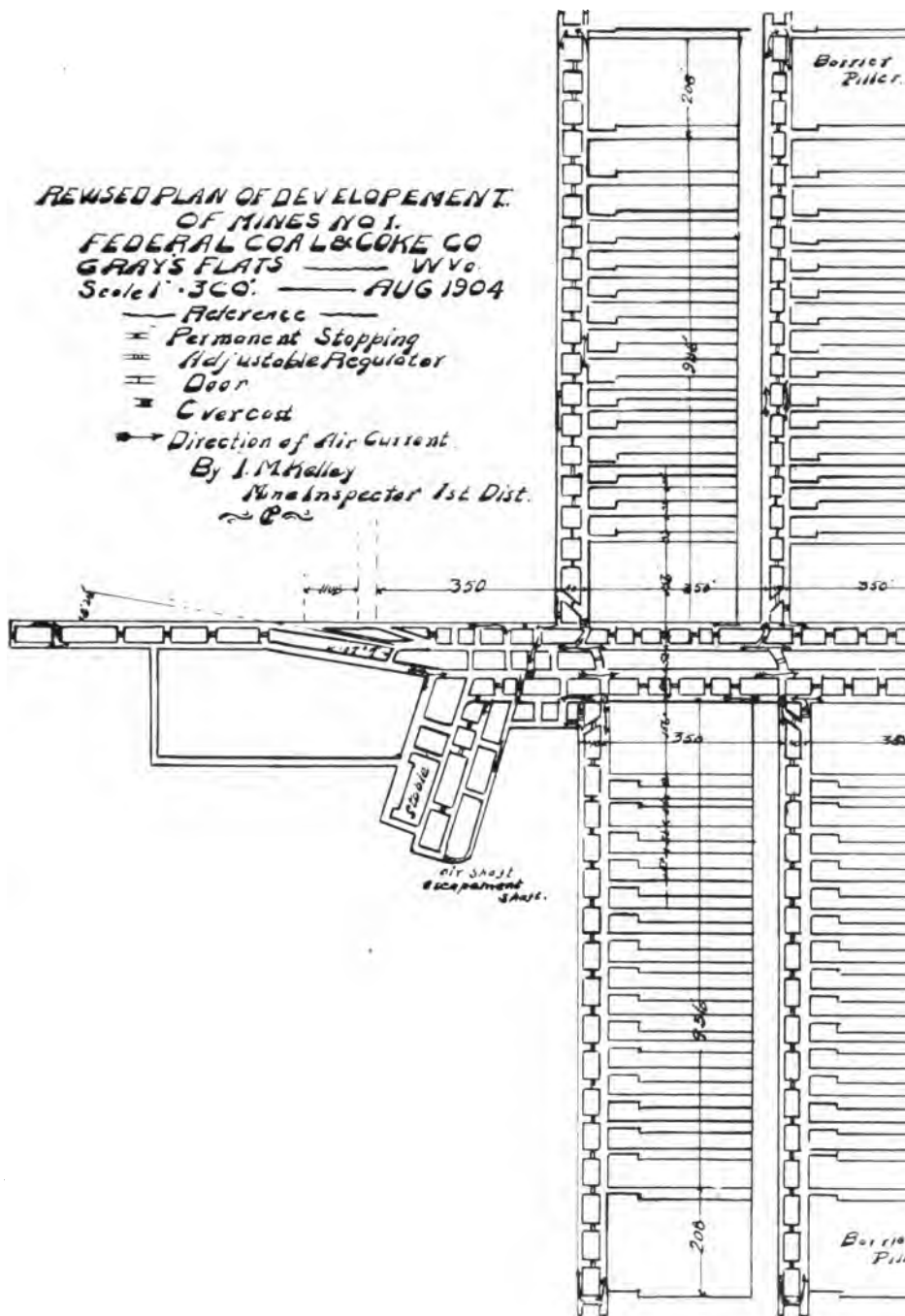
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ISAAC M. KELLEY,
Mine Inspector 1st District.

REWSED PLAN OF DEVELOPEMENT
 OF MINES NO 1.
 FEDERAL COAL & COKE CO
 GRAYS FLATS ——— Wyo.
 Scale 1" = 360'. ——— AUG 1904

- Adherence —
 - Permanent Stopping
 - Adjustable Regulator
 - Door
 - Overcast
 - Direction of Air Current
- By J. McElroy
 Mine Inspector 1st Dist.
 ~~~~~



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In my judgment, the careful ventilation and up to date condition of the mines in this district, render impossible such catastrophes as at Cheswick Pa., which shocked the country during the past year.

In addition to my regular report I herewith submit a revised map, made for the Federal Coal & Coke Co., which to my mind should be applied and used in the development of all coal fields.

The system generally followed, in the development of mines not only in this State, but in other States, is turning rooms off both heading and return air-courses. This should be discontinued, more particularly in all mines of a gaseous nature for the following reasons:

First. Because it prevents the proper ventilation of each of these headings, on account of doors located between headings which must be opened each time a trip comes in or goes out, causing the current of air to be broken.

Second. Under this system all of the gases, thrown off from working places on the intake of air, including powder smoke and other impurities, are passed along the working face of all the places on the return heading, making it unhealthy and, where gas exists, dangerous.

Third. In case of any place on the intake heading or on the return heading breaking through, to places coming to meet them from headings on their right or left, the air current is broken at that point and two districts are robbed of ventilation.

Fourth. With this system of development one-half of the coal must be worked to the dip. This means wet work and an up-hill haul.

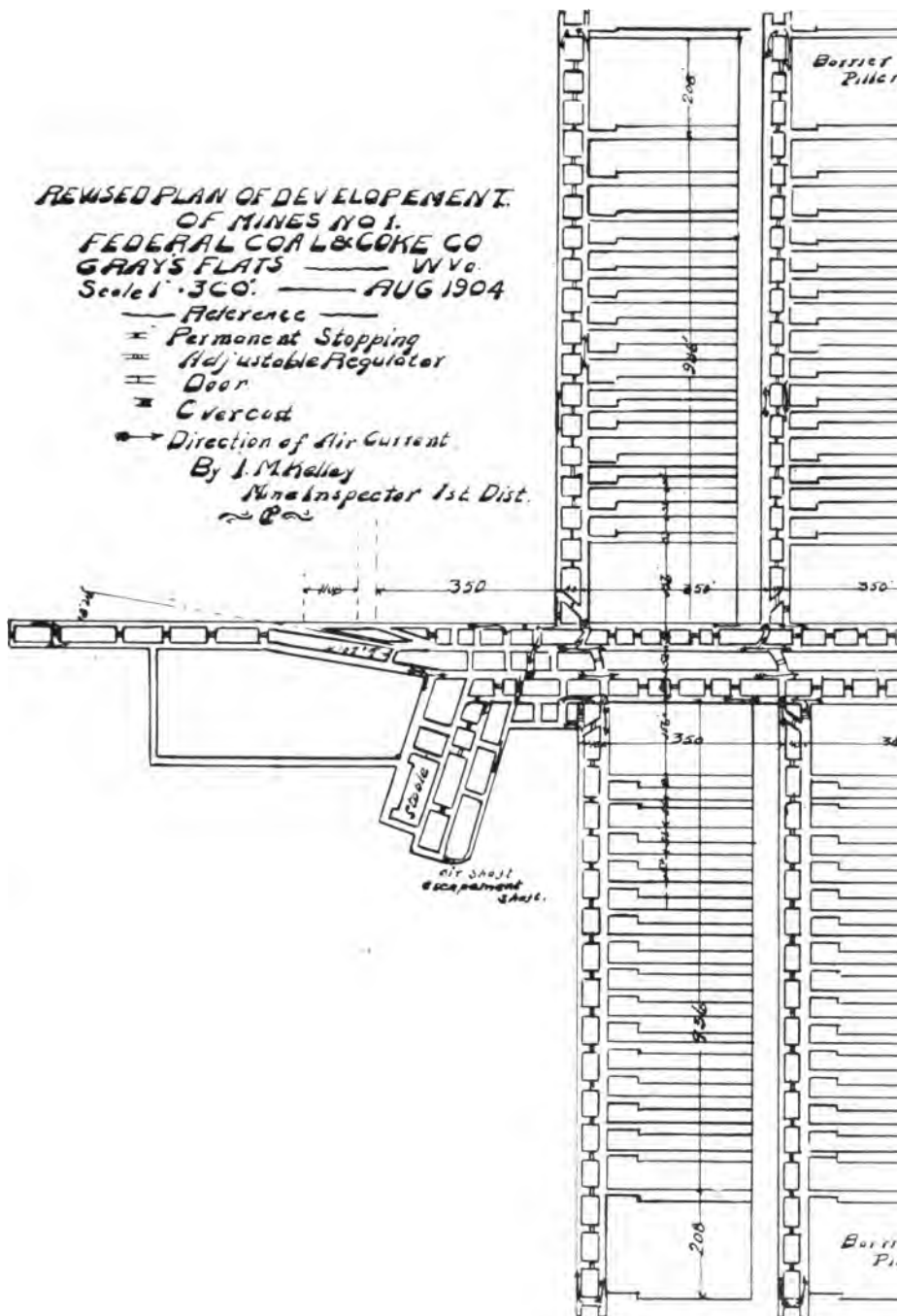
In conclusion I wish to thank the mine owners, operators and local managers, and the miners for the courtesies received at their hands during the year just closed, and also to thank you for your able counsel and advice so promptly given. Yours very truly,

ISAAC M. KELLEY,  
*Mine Inspector 1st District.*

REVISED PLAN OF DEVELOPEMENT  
OF MINES NO. 1.  
FEDERAL COAL & COKE CO  
GRAYS FLATS — W. Va.  
Scale 1" = 360' — AUG 1904

- Reference —  
 x Permanent Stopping  
 = Adjustable Regulator  
 = Door  
 x C. Vent  
 → Direction of Air Current

By J. M. Kelley  
Mine Inspector 1st Dist.  
~ Q ~



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MINE ACCIDENTS IN HARRISON, MARION & MONONGALIA

COUNTIES OF THE FIRST DISTRICT FOR THE YEAR

ENDING JUNE 30th, 1904.

FATAL.

| Date. | Mine.              | NAME.                        | Cause.                               | Injury.                       |
|-------|--------------------|------------------------------|--------------------------------------|-------------------------------|
| 1903  |                    |                              |                                      |                               |
| 7-8   | Monongah No. 3.    | Jacob Yannish.....           | Fall of coal.....                    | Internal injuries.            |
| 7-25  | Monongah No. 3.    | Stiney Koslos.....           | Fall of slate.....                   |                               |
| 9-9   | Gaston.....        | G. W. Yeager.....            | " " ".....                           |                               |
| 9-24  | W. Fair. Shaft.    | E. H. Seaton.....            | " " ".....                           |                               |
| 9-26  | Pennois.....       | John C. Riggins.....         | " " ".....                           |                               |
| 10-28 | Pooz.....          | Andy Malurchock.....         | " " coal.....                        |                               |
| 10-29 | Two Lick.....      | C. E. Starr.....             | Rope block gave way.....             | Legs cut off.                 |
| 11-9  | W. Fair. Shaft.    | Tony Wells.....              | Fall of slate.....                   | Skull crushed.                |
| 11-11 | Monongah No. 6.    | John Moot.....               | Fall of slate.....                   | Internal injuries.            |
| 11-16 | Fairmore.....      | Thos. Philbrin.....          | Struck by coal.....                  | Back badly crushed.           |
| 11-7  | Montana.....       | John Yonaco.....             | Fall of coal.....                    | Head and shoulders<br>mashed. |
| 1904  |                    |                              |                                      |                               |
| 1-12  | Pennois.....       | Sam. Hughes.....             | Fall of slate.....                   | Bowels crushed.               |
| 1-23  | New England.....   | James Audia.....             | Fell under car.....                  | Arm and leg cut off.          |
| 2-4   | Waldo.....         | J. J. Odell.....             | Caught under apron<br>at tippie..... |                               |
| 2-8   | Pinnickinnick..... | Robt. Ilderton.....          | Fall of coal.....                    | Chest crushed.                |
| 2-15  | Gaston.....        | Harry Haddix.....            | Fall of slate.....                   | Chest crushed.                |
| 3-1   | Chiefton.....      | Carlman Cza.....             | Blownout shot.....                   | Skull fractured.              |
| 3-29  | Murray.....        | Geo. Sappo.....              | Fall of coal.....                    | Neck broken.                  |
| 4-18  | Interstate.....    | John Venosky.....            | " " slate.....                       | Spinal cord severed.          |
| 3-31  | W. Fair. Shaft.    | Dom. Dilulo.....             | " " coal.....                        | Legs paralyzed.               |
| 6-1   | Chiefton.....      | John Penney.....             | " " coal.....                        | Skull crushed.                |
| 6-18  | Monongah No. 6.    | Salv. Eates.....             | " " slate.....                       | Leg broken.                   |
| 6-28  | New England.....   | Giovanni Sorzion-<br>ni..... | Mine car and rib.....                |                               |

NON-FATAL.

|       |                    |                                |                                         |                                   |
|-------|--------------------|--------------------------------|-----------------------------------------|-----------------------------------|
| 1903  |                    |                                |                                         |                                   |
| 7-13  | New England.....   | Ed. C. Jones.....              | Mine machine chain.....                 | Leg broken.                       |
| 7-16  | ".....             | Ant. Fusselle.....             | Fall of slate.....                      | Double fracture of arm.           |
| 7-23  | ".....             | A. L. Price.....               | Jumping from motor.....                 | Arm broken.                       |
| 7-23  | ".....             | J. T. Hawkins.....             | Horse scaring.....                      | Ribs broken.                      |
| 8-1   | Pinnickinnick..... | Mike Cato.....                 | Fall of slate.....                      | Left arm broken.                  |
| 8-6   | Monongah No. 6.    | James Ramie.....               |                                         | Head cut, hips bruised.           |
| 8-6   | Monongah No. 2.    | Grover Spragg.....             | Powder explosion.....                   | Face burned.                      |
| 8-6   | ".....             | Joe Villetto.....              | " " ".....                              | Face burned.                      |
| 8-6   | ".....             | Prosper Orifino.....           | " " ".....                              | Face and hands burned.            |
| 8-6   | ".....             | Joe Montz.....                 | " " ".....                              | Face and body burned.             |
| 8-6   | ".....             | Tony Tusch.....                | " " ".....                              | Body burned.                      |
| 8-6   | ".....             | Nick Fazzio.....               | " " ".....                              | " " ".....                        |
| 8-6   | ".....             | Pasquale Mongee.....           | " " ".....                              | " " ".....                        |
| 8-6   | ".....             | Frank Fazzio.....              | " " ".....                              | " " ".....                        |
| 8-6   | ".....             | Angello De Alex-<br>ander..... | " " ".....                              | " " ".....                        |
| 8-6   | ".....             | Albert Padula.....             | " " ".....                              | " " ".....                        |
| 8-6   | ".....             | Frank Selva.....               | " " ".....                              | " " ".....                        |
| 8-12  | Montana.....       | J. H. Joke.....                | Fall of slate.....                      | Spinal column broken.             |
| 8-12  | Interstate.....    | Frank Berto.....               | Fall of coal.....                       | Head cut and back<br>bruised.     |
| 8-20  | Waldo.....         | Ellsworth Fowler.....          | Caught between rib<br>and mine car..... |                                   |
| 9-9   | Monongah No. 3.    | John Pella.....                | Mine car and rib.....                   | Collar bone and 2 ribs<br>broken. |
| 9-10  | Montana.....       | L. C. Keener.....              | Fall of slate.....                      | Leg and arm broken.               |
| 9-15  | Riverdale.....     | Scott Gatrell.....             | Fall of slate.....                      | Right leg broken.                 |
| 10-5  | Highland.....      | Conget Demarrie.....           | Fell off car.....                       | Leg crushed.                      |
| 10-7  | Fall Run.....      | John Latos.....                | Bumpers of mine cars.....               | Right leg broken.                 |
| 10-12 | Montana.....       | Chas. Kerdner.....             | Fall of slate.....                      | Shoulder blade broken             |
| 10-16 | Riverdale.....     | Jos. Frontera.....             | Mine car and ribs.....                  | Thigh broken.                     |
| 10-22 | Pinnickinnick..... | Pat Flaherty.....              | Fell under trip.....                    | Leg broken.                       |
| 10-27 | Anderson.....      | John Muse.....                 | Fell off trip.....                      | Pelvis broken.                    |

\*The above named were burned in a mine car at the landing in Monongah No. 2 Mine.

Two of the miners burned, Frank Fazzio and Joe Villetto, had a five pound can of powder

each. The driver being ready to start to take these men to their working places, called

to Joe Villetto to get into the wagon. In doing so, the steel drill which he had on his

shoulder came in contact with an electric wire which caused the explosions of the cans of

powder resulting in all being badly burned.

**MINE ACCIDENTS IN HARRISON, MARION & MONONGALIA  
COUNTIES OF THE FIRST DISTRICT FOR THE  
YEAR ENDING JUNE 30th, 1904.**

**NON-FATAL—Continued.**

| Date. | Mine.            | NAME.               | Cause.                  | Injury.                           |
|-------|------------------|---------------------|-------------------------|-----------------------------------|
| 1903  |                  |                     |                         |                                   |
| 11-2  | W. Fair. Shaft.  | Rock Rezeo.....     | Car and post.....       | Collar bone broken.               |
| 11-4  | Monongah No. 6.  | Jos. Connie.....    | Fall of coal.....       | Left leg broken.                  |
| 11-14 | Solon.....       | Sam Martz.....      | Struck by fly wheel..   | Arm broken.                       |
| 11-17 | W. Fair. Shaft.  | Randolph Floyd..    | Truck chain broke..     | Leg broken.                       |
| 11-17 | Gaston.....      | W. D. Corley.....   | Mine machine chain..    | Leg cut off.                      |
| 11-17 | Monongah No. 6.  | Ross Knight.....    | Mine car off track..    | Arm broken.                       |
| 11-21 | Aurora.....      | John Huffman.....   | Fall of slate.....      | Leg broken.                       |
| 12-2  | Ehlen.....       | Jas. Fleming.....   | Run over by mine car    | Leg broken & crushed.             |
| 12-4  | Gaston.....      | John Curley, Jr...  | Igniting gas in roof..  | Face, neck & hands<br>burned.     |
| 12-4  | Montana.....     | Tom Koopcha.....    | Fall of slate.....      | Leg broken.                       |
| 1904  |                  |                     |                         |                                   |
| 1-4   | Meadowbrook...   | Bart Yaconis.....   | End gate came loose..   | Leg mashed.                       |
| 1-5   | Monongah No. 6.  | Carl Braki.....     | Fall of slate.....      | Leg broken.                       |
| 1-7   | Pooz.....        | John Voharerak...   | Fell off car.....       | Leg broken.                       |
| 1-12  | Gaston.....      | Paul Gregg.....     | Fall of slate.....      | Jaw broken.                       |
| 2-15  | Pinnickinnick... | Jas. Lovas.....     | .....                   | Right leg broken.                 |
| 2-23  | Chatham Shaft..  | Thos. Rickets.....  | Blownout shot.....      | Face and arm burned.              |
| 2-24  | Chatham Shaft..  | Cylins. Chk. No. 73 | Fall of slate.....      | Leg broken.                       |
| 3-14  | Pennois.....     | Albert Farman.....  | Car jumped track..      | Leg broken.                       |
| 3-21  | Montana.....     | Wesley Layman...    | Run over by mine car    | Leg broken.                       |
| 3-23  | Fall Run.....    | Chas. Simon.....    | Slate rolled over.....  | Leg broken.                       |
| 3-23  | Riverdale.....   | Petro Romano.....   | Fall of slate.....      | Thigh broken.                     |
| 4-12  | Montana.....     | Steve Snyder.....   | Fall of coal.....       | Knee crushed & spine<br>bruised.  |
| 4-13  | Ehlen.....       | John Starceries...  | Fall of slate.....      | Ribs broken & lungs<br>injured.   |
| 4-15  | W. Fair. Shaft.. | Geo Shouts.....     | Gas explosion.....      | Face, neck & hands<br>burned.     |
| 4-22  | Middleton.....   | Ben. Satterfield... | Fall of slate.....      | Chest mashed.                     |
| 5-10  | Gaston.....      | Salvatore Canata... | Rails fell off car..... | Leg broken.                       |
| 5-23  | Monongah No. 3.  | Geo. Pahanish.....  | Fall of coal.....       | Internal injuries.                |
| 5-28  | Pooz.....        | John U. Martin...   | Moving railroad car..   | Foot cut off.                     |
| 6-10  | Monongah No. 3.  | Pasq. Fedora.....   | Fall of coal.....       | Leg crushed.                      |
| 6-14  | Solon.....       | A. E. Vassar.....   | Machine jack.....       | Concussion of the brain           |
| 6-14  | Ocean.....       | Albert Alexander... | Run over by car.....    | Leg broken.                       |
| 6-16  | Erie.....        | Earl Collins.....   | Blownout shot.....      | Hands & face burned.              |
| 6-20  | Beechwood.....   | Tony Ongot.....     | Fall of slate.....      | Leg broken.                       |
| 6-23  | Solon.....       | Pasco Auverio.....  | Powder explosion.....   | Face burned & eye de-<br>stroyed. |
| 6-28  | Kilarm.....      | Antonia Simsie...   | Fall of slate.....      | Both legs fractured.              |
| 6-30  | Viropa.....      | Frank Ygunt.....    | " " " ".....            | Legs fractured.                   |

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**CONDITION OF THE MINES IN THE FIRST MINING DISTRICT.****I. M. KELLEY, INSPECTOR.**

(NOTE.—Mines Nos. 1 to 12, inclusive, and 88 to 100, inclusive, were inspected and reported upon by Mr. Westlake, the Inspector of the Fifth Mining District.)

**BROOKE COUNTY.****PANHANDLE COAL CO.**

No. 1. *Blanche Mine*.—This mine was regularly inspected two different times during the year. On my last visit found the mined closed indefinitely, a fault having cut the coal out. After driving in the fault a distance of 200 feet and no indications of coal coming in again pillars were drawn and mine abandoned.

GEORGE MILLWARD, Supt.

**WIOTA COAL CO.**

No. 2. *Wiota Mine*.—This mine was regularly inspected three different times during the year, when the conditions in regard to safety were found good. Ventilation, fairly good; drainage, along main haulway in places, was very bad. The attention of the management was called to this. Rules are posted, blankets and stretchers kept on hand and oil used meets the requirements of the law.

No map of this mine has ever been furnished this office.

J. L. SPENCE, Supt. & Mine Boss.

**LA BELLE COAL CO.**

No. 3. *Lewis Mine*.—This mine has changed hands during the past year. It was formerly operated by the Lewis estate, but is now owned and operated by the La Belle Coal Co. It was regularly inspected two different times during the year, when the conditions in regard to safety were found good. Ventilation and drainage were bad. An entry is being driven to the out-crop, on the dip side of the mine, for ventilation and drainage, and will no doubt afford the necessary relief.

Rules are posted, blankets and stretchers are not kept on hand as required by law. The oil used meets the requirements of the law.

A map showing workings of this mine extended to July, 1904, has been furnished this office.

O. L. MARQUET, Supt.

WILSON HOLMES, Mine Boss.

No. 4. *Bowman Mine*.—This company is the successor to the Wells Coal Co., having recently acquired the property. This mine was regularly inspected twice during the year, when the conditions in regard to safety were found good. Ventilation and drainage were not found in a very satisfactory condition. On my last visit to this mine, on June 22nd, it was found closed. Rules are posted, but blankets and stretchers are not kept on hand, as required by law.

A fair quality of miners' oil was found being used. No map of this mine has ever been furnished this office.

O. L. MARQUET, Supt.

WILSON HOLMES, Mine Boss.

**BEECH BOTTOM COAL CO.**

No. 5. *Beech Bottom Mine*.—This mine was opened during the sum-



mer of 1903, and is a drift opening in the No. 8 or Pittsburg seam. It is located 6 miles south of Wellsburg, on the Ohio River, and P. C. C. & St. L. R. R. The coal at this place varies in thickness from 5 to 6 feet. The mine is developed on the double entry system, with 50 foot pillars between entries and rooms driven 33 feet from center to center and 24 feet wide. Roof is fairly good. Drainage and ventilation are good. Oil used meets the requirements. Rules are posted at the mine, but blankets and stretchers are not kept on hand.

A map showing mine workings, extended to July 1st, 1904, has been furnished this office.

ELMER HOUGH, Supt.

J. R. PATRICK, Mine Boss.

#### LEWIS-FINDLEY COAL CO.

No. 6. *Lewis-Findley or Locust Grove Mine.*—This mine was opened during the winter of 1904, and is a drift opening in the No. 8 or Pittsburg coal. It is located on Harmons Creek, and on the P. C. C. & St. L. R. R., and will be a coaling station for this road. Coal at this place varies in height from 5 to 6 feet, with a fairly good roof. Two inspections were made of this mine during the year, when the conditions in regard to safety were found good.

Ventilation and drainage are fairly good. Rules are posted. Blankets and stretchers have not yet been supplied. Oil used is found to be of fair quality. A map showing the mine workings, extended to July 1st, 1904, has been furnished this office.

The coal is lowered over an incline plane, 1,000 feet in length from mine to tram road leading to tippie.

E. G. FLINN, Supt. & Mine Boss.

#### WELLSBURG COAL CO.

No. 7. *Wellsburg Mine.*—This company opened a new mine during the summer, 1903. The headings have been driven a distance of 700 feet; tippie and an incline plane built, and a distance of three miles graded for switch. The company is at present in litigation with a traction company over a grade crossing for the switch to the mine, and all work has been stopped for the past eight months.

#### LA BELLE IRON WORKS.

No. 8. *La Belle Shaft Mine.*—The openings of this mine are in the State of Ohio, but the mine workings are now in West Virginia, and in the future will be regularly inspected by the inspector of this district.

P. J. HARRIGAN, Supt.

A. LAFFERTY, Mine Boss.

#### HANCOCK COUNTY.

##### M. M. CULLEN.

No. 9. *Porter Mine.*—This mine was regularly inspected three times during the year, when the conditions in regard to safety were found good. Ventilation and drainage fairly good. Rules are posted, but blankets and stretchers are not kept on hand. Oil used meets the requirements of the law.

No map of this mine has ever been furnished this office.

M. M. CULLEN, Supt.

J. H. CULLEN, Mine Boss.

**MARQUET COAL CO.**

Nos. 10 & 11. *Marquet Mines Nos. 1 & 2.*—These mines were regularly inspected three times during the year, when the conditions in regard to safety were found good. Drainage and ventilation in the No. 1 mine are first class, in the No. 2 not very good. On June 29th, the date of my last visit, No. 2 mine was closed, and is not likely to be re-opened, as only a small amount of coal remains to be taken out of No. 2 mine. Rules are posted, blankets and stretchers kept on hand and oil used meets the requirements of the law.

Maps showing mine workings extended to July, 1903, have been furnished this office.

C. F. WAGONER, Supt.      WILLIAM LEDYARD, Mine Boss, Mine No. 1.  
JOHN WOLF,                      Mine Boss, Mine No. 2.

**CONGO COAL CO.**

No. 12. *Brenneman Mine.*—This is a new drift opening in the Freeport seam, which was opened in the summer of 1903. It is located six miles north of New Cumberland, W. Va., on the Ohio River, and on the Chester Branch of the P. C. C. & St. L. R. R. The coal at this place varies in thickness from four to five feet. Mine was regularly inspected two different times during the year. On date of last visit mine was closed down, and not likely to be re-opened, as so many sand-stone faults were encountered as to render the mine unprofitable.

W. S. MARQUET, Supt.                      HARRISON BAILEY, Mine Boss.

**HARRISON COUNTY.****CLARKSBURG FUEL CO.**

No. 13. *Pinnickinnick Mine No. 1.*—Is located one mile east of Clarksburg, on the B. & O. R. R., and operates Pittsburg seam, which is from 7 to 9 feet clean coal. Mine is ventilated by fan, which gives good air, well distributed throughout the mine. Drainage, fair. Machinery and all appliances for handling coal, in first class condition. Oil for illuminating purposes, up to requirements. Conditions in and about the mine, satisfactory. Improvements are under way to make this a coaling station for the main line of the B. & O. R. R.

J. H. NUZUM, Supt.

THOS. POLLOCK, Mine Boss.

No. 14. *Fall Run or Pk. Mine No. 2.*—Operates the Pittsburg vein, which is from 7 to 10 feet in thickness. Three inspections were made during the year. Ventilation, drainage and general conditions for safety satisfactory.

H. H. WATSON, Supt.

WILLIAM SIMS, Mine Boss.

No. 15. *Dixie Mine.*—Is in Pittsburg seam, which is from 7 to 8 feet in thickness. Three inspections were made of this mine during the year. Conditions in every respect are fully up to the requirements of the law, despite natural difficulties in the nature of bad roof and other adverse conditions. Ventilation good. Drainage fair. Oil for illuminating purposes up to the requirements of the law.

J. L. MEREDITH, Supt.

J. L. MEREDITH, Mine Boss.

No. 16. *Two Lick Mine.*—Pittsburg seam, from 7 to 9 feet in thickness.

This mine has been in good condition on each of my three visits during the year. A good volume of air, which is well distributed in sufficient quantities throughout the working places. Timbering good. Drainage fair. Haul-ways in good condition for healthfulness and safety. This mine is in a very satisfactory condition.

WILLIAM KEEFFE, Supt. TONY STAR and G. T. GANDY, Mine Bosses.

No. 17. *Interstate Mine*.—This mine has been in a very satisfactory condition on each of my three visits. Pittsburg vein from 7 to 8 feet in thickness is operated. Three inspections were made during the year. The mines were found in good condition. Roadways in good repair. Ventilation and drainage good. Timbering and conditions for safety satisfactory. Special rules are posted. Oil for illuminating purposes up to the requirements of the law.

LOWELL CHILDS, Supt.

L. P. ROWAND and L. C. KEENER, Mine Bosses.

No. 18. *O'Neil Mine No. 1*.—Three inspections were made of this mine during the year. Ventilation good. Drainage, on account of local conditions, is not good. There only being from 5 to 6 feet of coal, with an unusually bad roof, it is very difficult to keep in good condition. With the above exceptions I find everything in and about the mine satisfactory. J. W. PARKER, Supt.

J. O. FOWLER and G. W. ELIASON, Mine Bosses.

No. 19. *O'Neil No. 2*.—Pittsburg vein from 6 to 8 feet in thickness. During the year three inspections of this mine were made. Ventilation drainage and timbering good. Haulways clean and in good repair. Oil for illuminating purposes, fair. General conditions for healthfulness and safety satisfactory.

J. W. PARKER, Supt.

S. L. SCHRADER, Mine Boss.

#### FAIRMONT COAL CO.

No. 20. *Enterprise Mine*.—Pittsburg vein from 7 to 9 feet in thickness. The condition of this mine during the year has been fully up to the requirements of the law. Ventilation, drainage and timbering excellent. Haulways clean and in good repair. Illuminating oil good, and all conditions for safety and healthfulness, satisfactory.

G. W. FLEMING, Supt.

WILLIAM GANTZ, Mine Boss.

No. 21. *Viropa Mine*.—Pittsburg vein, from 7 to 9 feet in thickness. Three openings clear of obstructions. Ventilation, drainage and timbering good. All machinery and appliances for handling coal in good condition. Three inspections were made during the year and everything in and about the mine in a satisfactory condition and fully up to the requirements of the law.

GEO. W. FLEMING, Supt.

G. W. ELIASON and WM. WALLACE, Mine Bosses.

No. 22. *Ehlen Mine*.—Pittsburg vein, from 7 to 9 feet in thickness. Three inspections were made of this mine during the year. Ventilation and drainage good. Haulways are kept clean. All conditions for healthfulness and safety satisfactory. Special rules are posted. Machinery and all appliances for handling coal in good condition.

THOS. JARRETT, JR., Supt.

H. S. COLBURN, Mine Boss.

No. 23. *Solon Mine*.—This mine is located within one mile of Shinnston, on the M. R. division of the B. & O. R. R. Drift mine, Pittsburg vein, from 7 to 9 feet in thickness. Ventilation, drainage, timbering and all conditions for healthfulness and safety, satisfactory. Oil for illuminating purposes up to the requirements of the law. On each of the three inspections of this mine made during the year, I found all conditions fully up to the requirements.

THOS. JARRETT, JR., Supt.

M. FREEMAN, Mine Boss.

No. 24. *Gypsy Mine No. 5*.—Pittsburg vein from 7 to 9 feet in thickness. Three inspections were made of this mine during the year. Ventilation, drainage and general conditions for safety on each inspection were found to be good. Passing room along haulways, satisfactory. Oil for illuminating purposes up to the requirements and all conditions for healthfulness and safety very satisfactory.

C. F. ICE, Supt.

BURT RUSSELL, Mine Boss.

W. W. LEONARD, Ass't.

No. 25. *Gypsy Mine No. 7 or Harbert*.—Gypsy Nos. 5 and 7 are operated from the same opening and the coal dumped on the same tippie. The same conditions are found in No. 7 as are found in No. 5, being very satisfactory.

C. F. ICE, Supt.

BURT RUSSELL, Mine Boss.

W. W. LEONARD, Ass't.

No. 26. *Maulsby Mine*.—This mine is located 11 miles north of Clarksburg, on the M. R. division of the B. & O. R. R. Pittsburg vein, from 7 to 9 feet in thickness. This mine has been shut down for a considerable time during the year. Two inspections were made, found ventilation good, drainage fair, and all other conditions for healthfulness and safety very satisfactory.

C. F. ICE, Supt.

W. H. HACKER and BERT RUSSELL, Mine Bosses.

No. 27. *Meadow Brook Mine*.—Pittsburg vein, from 7 to 9 feet in thickness. Ventilation, drainage and timbering good. Machinery and all appliances for handling coal in first class condition. Oil for illuminating comes up to the requirements. Three inspections were made during the year and certificates issued.

P. B. ROBINSON, Supt.

C. D. POWELL, Mine Boss.

No. 28. *Farnum Mine*.—Pittsburg vein, from 7 to 9 feet in thickness. Three inspections were made of this mine during the year. Ventilation, drainage and timbering good. All conditions for safety and healthfulness are fully up to the requirements of the law.

H. H. WATSON, Supt.

P. J. McANDREWS, Mine Boss.

No. 29. *Glen Falls Mine*.—Drift mine, Pittsburg vein, from 7 to 10 feet thick. This mine has been closed down the greater part of the year. Two inspections were made, found all conditions for safety very satisfactory.

H. H. WATSON, Supt.

W. B. SIMS, Mine Boss.

No. 30. *Dunham Mine*.—This mine is located 5 miles north of Clarksburg, on the M. R. division of the B. & O. R. R. Drift mine in Pittsburg vein from 7 to 9 feet thick. Improvements in the way of drainage and new tippie have been made during the year, which make this one of our up to date mines. Machinery and all appliances for handling coal are first

class. Ventilation, drainage, timbering, and oil are fully up to the requirements of the law. Three inspections were made and certificates issued.

H. H. WATSON, Supt.

WILLIAM SIMS, Mine Boss.

No. 31. *Lynch Mine*.—Drift opening into the Pittsburg vein from 7 to 9 feet thick. Electric power furnished to this mine is from Two Lick Mine. On account of the breaking out of small pox among the miners, this mine has been closed down the greater part of the year. Two inspections were made and every thing in and about the mine found in a satisfactory condition.

WILLIAM KEEFE, Supt.

J. C. WAGNER, Mine Boss.

No. 32. *Summit or Reynoldsville Mine*.—This is a drift opening into the Pittsburg vein, from 6 to 9 feet thick. Some difficulty has been experienced at this mine during the last year on account of water and the soft clay condition of the pavement in part of the mine. An opening is now being made, which will carry off the accumulated water and give good drainage. With that one exception, this mine is up to the requirements of the law for ventilation, timbering and general conditions for safety and healthfulness.

HARRY HARDESTY and WM. GOODNITE, Supts. and Mine Bosses.

No. 33. *Columbia Mine*.—Pittsburg vein, from 7 to 9 feet thick. This mine is in exceptionally good condition. Ventilation, drainage and timbering good. Machinery and all appliances for handling the coal in elegant condition. This mine has been making, until within the last year, considerable gas. At the present time, I find only a trace of gas on the lower level. Oil for illuminating is up to the requirements of the law. Stretchers and blankets on hand. Special rules posted. Three inspections made during the year. The local management should be commended for the good condition of this mine.

J. H. NUZUM, Supt.

RALPH BROWN, Mine Boss.

No. 34. *Ocean Mine*.—Located three miles east of Clarksburg, on the B. & O. R. R. Pittsburg vein from 7 to 9 feet thick. Three inspections of this mine were made during the year. Ventilation, drainage and timbering exceptionally good. Machinery and all appliances for handling the coal and delivering it to the tipples in first class condition. Haulways are in good repair and kept free from loose coal. Oil for illuminating purposes fair. We have some trouble at this place to keep the foreign miners from using mixed oil, with that exception conditions are exceptionally good.

E. P. GOEDECKE and K. D. BAILEY, Supts.

U. B. BLAKESMITH, Mine Boss.

No. 35. *Riverdale Mine*.—Pittsburg vein, from 7 to 9 feet thick. Power used, electricity. Ventilation and drainage good. Oil for illuminating purposes up to the standard. Haulways are kept clean and in a very satisfactory condition throughout the mine. Stretchers on hand. Special rules are posted. Three inspections were made during the year and certificate issued.

H. S. TOOTHMAN, Supt.

D. A. WILSON, Mine Boss.

*PITTSBURG & FAIRMONT FUEL CO.*

No. 36. *Perry Mine No. 1.*—Pittsburg vein from 7 to 9 feet in thickness. Three inspections were made during the year. On each inspection, conditions outside and inside were found excellent. Ventilation throughout the mine good. Drainage and timbering good. Sanitary and general conditions for safety good. Machinery and all appliances for handling coal very satisfactory. Electric power chain machines are used.

E. H. WILLIAM, Supt.

OTIS JACOBY, Mine Boss.

No. 37. *Perry Mine No. 2.*—This mine is located just opposite mine No. 1, the coal being dumped over the same tippie. Three inspections of this mine were made during the year and the same conditions for ventilation, drainage, timbering and general safety were found as in No. 1. The superintendent and mine boss should be commended for the care taken and workmanlike manner of the mines, as is shown in the excellent condition of the mines controlled by them.

E. H. WILLIAMS, Supt.

OTIS JACOBY, Mine Boss.

No. 38. *Perry Mine No. 3.*—Pittsburg vein, from 7 to 9 feet thick, two miles west of Clarksburg. Coaling station for the W. Va. Short Line R. R. All machine mining, electric power furnished from Perry mine No. 1. Electric fan, which furnishes air to ventilate the mine throughout. Drainage good. Timbering good. Haulways in good repair and free from loose coal and slate. Conditions for safety excellent. Oil for illuminating purposes up to requirements. Special rules posted. Three inspections of this mine were made during the year and certificates issued.

E. H. WILLIAMS, Supt.

FLOYD GANDY, Mine Boss.

No. 39. *Pooz Mine No. 1.*—Drift opening, Pittsburg vein from 7 to 9 feet thick. Three inspections were made during the year, and the following conditions were found: Power used at this mine, compressed air, three punchers are used for undercutting. Fan ventilation, which gives a current at intake of 32,400 cubic feet per minute. This air is well distributed throughout the mine. A small quantity of gas is found in the northwest workings, but having good ventilation this is not giving any trouble. Drainage and timbering good. Haulways are clean and in good repair, with sufficient passing room. Sanitary and general conditions for safety fully up to the requirements. Machinery and all appliances for handling coal in excellent condition.

C. F. ICE, Supt.

W. H. HACKER, Mine Boss.

No. 40. *Lucas Mine.*—Drift opening to the Pittsburg vein. Coal 7 to 9 feet in thickness. This mine has been opened within the last year and is operated in connection with the Pooz mine, located on the W. Va. Short Line R. R., 12 miles north of Clarksburg. Ventilation good. Drainage, timbering, oil for illuminating purposes, sanitary and conditions for safety fully up to the requirements. Two inspections were made during the year.

C. F. ICE, Supt.

W. H. HACKER and JOHN WALTERS, Mine Bosses.

*FAIRMONT & BALTIMORE COAL & COKE CO.*

No. 41. *Fairmore Mine.*—Drift opening, Pittsburg vein, from 7 to 10 feet thick. Three inspections were made during the year. Ventilation by fan, which gives good air throughout the mine. Drainage in the north-

west part of mine only fair, caused by local drips. Drainage in the south-east part of the mine very good. Timbering good. Oil for illuminating purposes and other conditions are fully up to the requirements of the law. Special rules are posted. Stretchers on hand. Machinery for handling the coal is in good condition.

W. A. SOMERVILLE and A. LISLE WHITE, Supts.

THOS. WESTMORELAND, Mine Boss.

*COOK COAL & COKE CO.*

No. 42. *Girard Mine*.—Drift opening, Pittsburg vein from 7 to 9 feet thick. Electric power chain mining machines used. Motor haulage. Stine fan, which furnishes good ventilation throughout the mine. Drainage good. Timbering good. Oil for illuminating purposes up to the requirements. Haulways clean and in good repair. Special rules posted. Sanitation and conditions for safety excellent. Three inspections were made during the year and certificates issued.

W. H. H. MILLER, Supt.

C. C. LOVETT, Mine Boss.

*MEADOW BROOK COAL & COKE CO.*

No. 43. *Erie Mine*.—Drift opening to the Pittsburg coal from 7 to 9 feet in thickness, ventilated by fan. Power used, compressed air. Three inspections were made of this mine during the year and the following conditions were found: Intake 42,000 cubic feet of air per minute, well distributed throughout the mine, giving good ventilation. Drainage good. Timbering good. Haulways in good repair and free from coal and slate, with ample passing room. Oil for illuminating purposes and second openings and general conditions for safety fully up to the requirements of the law. The local management at these mines is worthy of the highest commendation for the excellent condition of this plant.

L. L. CRAWFORD, Supt.

C. D. M. KRAMER, Mine Boss.

*MADEIRA-HILL-CLARK COAL CO.*

No. 44. *Waldo Mine*.—Drift opening, Pittsburg vein. Coal from 7 to 9 feet thick. Power, compressed air. Punching machines are used for undercutting. Rope sprocket haulage delivers the coal from mine to tippie and returns the empties. Fan ventilation, which is good throughout the entire mine. Haulways are kept clean and in good repair, with passing room. Timbering throughout the entire mine is excellent. Crosscuts are regularly driven. Oil for illuminating purposes up to the requirements. Second opening, drainage, sanitary conditions are fully up to the requirements of the law. Three inspections of this mine were made during the year.

HARRY B. CLARK, Supt.

W. C. BATSON and W. A. ASHCRAFT, Mine Bosses.

*COOK & HART COAL CO.*

No. 45. *Cork Mine*.—Drift mine, Pittsburg vein, from 7 to 9 feet thick. All pick mining. Very little work has been done at this mine during the last year. The main entry has been driven through the hill in a southeasterly direction. This gives good natural ventilation, and good drainage. Oil used for illuminating purposes, up to the requirements. Tim-

bering good with the general condition greatly improved. Three inspections of this mine were made during the year and certificates issued.

JAMES F. COOK, Supt.

CHARLES MILLS, Mine Boss.

*ROSEBUD COAL CO.*

No. 46. *Kestler or Rosebud Mine.*—Drift mine, Pittsburg coal from 7 to 9 feet in thickness. Pick mining. Three inspections were made during the year. On each visit I found good ventilation, good drainage, haulways clean and in good repair, crosscuts regularly driven, second opening free of obstructions. Illuminating oil and conditions for safety fully up to the requirements of the law.

L. J. KESTLER, Supt.

SAMUEL CROMER, Mine Boss.

*HUTCHINSON FUEL CO.*

No. 47. *Byron Mine No. 1.*—Drift mine, Pittsburg coal from 5 to 7 feet in thickness. Power used, compressed air. Punching machines are used for mining. Three inspections of this mine were made during the year. On my last visit I found the management having trouble on account of the bad soap stone roof, which is hard to manage in a thin vein of coal. Ventilation by fan and good. Drainage good. Timbering and general conditions for safety satisfactory. Oil for illuminating purposes comes up to the requirement of the law. Crosscuts are regularly driven. Special rules are posted.

W. G. H. CRAWFORD, Supt.

W. B. MALONE, Mine Boss.

No. 48. *Byron Mine No. 2.*—Drift mine to the Pittsburg coal, located opposite Byron No. 1. Coal dumped over the same tippie. The coal in this mine is from 7 to 8 feet in thickness. Ventilation good, drainage fair, timbering good, oil for illuminating purposes up to the standard, crosscuts regularly driven, sanitation and conditions for safety satisfactory.

W. G. H. CRAWFORD, Supt.

W. B. MALONE, Mine Boss.

*PHOENIX COAL MINING & COKE CO.*

No. 49. *Phoenix Mine.*—Slope mine, Pittsburg vein, which measures from 5 to 6 feet in thickness. Power used, compressed air. Coal is delivered from the mine to tippie by a link sprocket chain, which also delivers the empty cars to the bottom of the slope in the mine. Air is furnished by a horizontal fan, which gives sufficient air for good ventilation. Very little coal has been mined during the year. I understand that this mine will be closed down indefinitely. Three inspections were made during the year and all conditions in and about the mines are fully up to the requirements of the law.

J. J. ELLIOTT, Supt.

E. MUIR, Mine Boss.

*O'GARA C. M. CO.*

No. 50. *Solon-Lowery, now O'Gara Mine.*—Slope opening to the Pittsburg vein, which is from 5 to 6 feet in thickness. Power, compressed air. Puncher mining machines, link sprocket haulage, which delivers the coal from the bottom of the slope to the tippie and returns the empty cars. Three inspections were made of this mine during the year and on each visit I found a good current of air throughout the mine, good drainage,



crosscuts regularly driven, haulways clean and in good repair, timbering good. Illuminating oil up to the requirements, and the mine throughout in splendid condition.

M. MANNIX, Supt.

B. H. MONRÔE, Mine Boss.

#### LUKENS COAL CO.

No. 51. *Lukens Mine*.—Drift opening to the Pittsburg coal. Average thickness of vein, 8 feet. Power, compressed air. Puncher machines. Three inspections were made of this mine during the year and on each visit found the very best conditions. The mining laws being complied with as near as it is possible so to do, this being one of the up to date plants in the first mining district.

JOHN TEMPLE, Supt.

PAT PICKETT and JOS. MATHENY, Mine Bosses.

#### CHIEFTAIN COAL CO.

No. 52. *Chieftain Mine No. 1*.—Drift opening, Pittsburg coal, thickness from 7 to 9 feet. Electric power, chain mining machines, motor haulage. Three inspections of this mine were made during the year. I found on each visit good ventilation throughout the mine, good drainage and timbering. Illuminating oil up to the requirements. Roads clean and in good repair. Sanitary and all other conditions fully up to the requirements of the law. Special rules are posted. Machinery and all appliances for handling coal in first class condition.

C. J. WARNOCK, Supt.

A. J. KREMPS and WM. JENKINS, Mine Bosses.

No. 53. *Chieftain Mine No. 2*.—Located opposite on the northwest side of Chieftain No. 1. Drift opening to the Pittsburg seam. Coal from 6 to 7 feet thick. The coal from this mine is dumped over No. 1 tippie. All conditions are fully up to Chieftain No. 1, except drainage, which is only fair.

C. J. WARNOCK, Supt.

A. J. KREMPS and WM. JENKINS, Mine Bosses.

#### PITCAIRN COAL CO.

No. 54. *Pitcairn Mine*.—This mine is located one mile south of Clarksburg, on the Va. and Pittsburg R. R. Drift mine, Pittsburg seam from 7 to 9 feet in thickness. Three inspections were made during the year, and on each visit I found good ventilation, good drainage, haulways clean and in good repair, timbering and all conditions for safety satisfactory. I find this to be an up to date plant in every department.

J. A. JENKINS, Supt.

GRANT WHITE, Mine Boss.

#### HAROLD COAL & COKE CO.

No. 55. *Harold Mine*.—Is located two miles north of Clarksburg, on the M. R. division of the B. & O. R. R. Drift mine, Pittsburg seam from 7 to 9 feet in thickness. This mine has not been operated to any extent during the year. Two inspections were made and I found the mining laws were being complied with.

B. W. McCLURE, Supt.

I. N. CUNNINGHAM, Mine Boss.

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SHORT LINE COAL CO.

No. 56. *Short Line or Girard No. 2 Mine*.—Located on Shin's Run, W. Va. Short Line R. R., 19 miles north of Clarksburg. Drift mine in Pittsburg vein from 7 to 9 feet thick. The first coal shipped from this mine was in May, 1904. It will be an up to date plant when completed.

W. H. H. MILLER and ISHAM KEITH, Supts. B. H. STEVES, Mine Boss.

## J. W. OVERHOLT COAL CO.

No. 57. *Dola Mine*.—Located at Dola, on the W. Va. Short Line R. R. Drift mine, Pittsburg seam from 7 to 9 feet in thickness. Started to ship coal in February, 1904. In June, 1904, stopped shipping, and at the present time are only mining for domestic use. Mines are in first class condition.

C. F. OVERHOLT, Supt.

JACOB WELCH, Mine Boss.

## MARION COUNTY.

## FAIRMONT COAL CO.

No. 58. *Murray Mine*.—Drift opening, Pittsburg seam. Electric power, chain mining machines, motor haulage. All machinery in first class condition. Three inspections were made during the year. Ventilation very good. Drainage and timbering good. Haulways clean and in good repair. I found a number of miners using mixed oil. This, I have the assurance, will be stopped. Crosscuts are regularly driven, special rules posted, stretchers on hand. I believe the mining laws are being complied with.

J. H. BAINBRIDGE, Supt.

W. H. MALONE, Mine Boss.

No. 59. *Montana Mine*.—Drift opening, Pittsburg seam from 7 to 9 feet thick. Electric power, motor haulage. Three inspections were made of this mine during the year. Ventilation was found to be good throughout the mine. Drainage good as can be, considering the unfavorable conditions for good drainage. Timbering exceptionally good. This is necessary on account of the great amount of loose slate found in this mine. Haulways are clean and in good repair. With the exception of a few miners and machine men whom I found using mixed oil for illuminating purposes, the oil was satisfactory. Crosscuts are being regularly driven, giving good air well up to the working faces. Conditions for safety are good. The percentage of accidents is lower at this mine than at other mines in the district, where more favorable and less dangerous conditions are to be found. This, to my mind, demonstrates the fact that good, careful, practical superintendents and mine bosses can handle and make safe, dangerous conditions when confronted with them. Other conditions are satisfactory.

C. E. GASKILL, Supt.

W. M. GASKILL, Mine Boss.

No. 60. *Aurora Mine*.—Drift mine, Pittsburg vein from 7 to 8 feet in thickness. This mine is not in operation.

C. E. GASKILL, Supt.

MIKE FREEMAN, Mine Boss.

No. 61. *West Fairmont Shaft Mine*.—Shaft mine, Pittsburg coal from 7 to 9 feet in thickness. Four inspections were made of this mine during the year. On my last visit the following conditions were found: Tracks,

timbering, doors, stoppings, overcasts and ventilation in good condition. I find an intake volume of air 95,980 cubic feet per minute, divided into seven main splits, controlled by fans as follows:

*Hill Fan.*

|                        |                    |
|------------------------|--------------------|
| Buffalo District ..... | 9,520 cubic feet.  |
| Hill District .....    | 9,100 cubic feet.  |
| Creek Level .....      | 25,200 cubic feet. |

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Total.....43,820 cubic feet.

*Shaft Fan.*

|                               |                    |
|-------------------------------|--------------------|
| Old Workings .....            | 3,830 cubic feet.  |
| Main Dip & R. Lv. Dist.....   | 18,750 cubic feet. |
| Left Level Dist.....          | 18,860 cubic feet. |
| No. 1 B head off L. Dist..... | 10,720 cubic feet. |

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Total.....52,160 cubic feet.

From these divisions all butt heading districts are well ventilated. There are no standing gases in any of the workings of this mine, although the main dip, main left level and sixth butt heading off the left level are throwing off some gas. These, however, are kept clear by canvas brattices, so that there are no standing gases at the working faces. Fan speed at hill fan 110 revolutions per minute. Water gauge 2 3-10 inches. Shaft fan, 68 revolutions per minute. Water gauge, 1 3-10 inches. Oil for illuminating purposes, sanitary conditions and general conditions for safety fully up to the requirements of the law. The local management should be commended for the excellent condition of this mine.

J. J. BRENNEN, Supt.      WILLIAM GANTZ, Mine Boss

C. E. SIDWELL and M. L. SMITH, Fire Bosses.

No. 62. *O'Donnell Mine*.—Drift mine, Pittsburg vein, from 7 to 8 feet in thickness. This mine is not in operation.

J. C. McKINNEY, Supt. and Mine Boss.

No. 63. *New England Mine*.—Drift mine, Pittsburg coal from 7 to 9 feet in thickness. Three inspections were made of this mine during the year and on my last visit the following conditions were found: Rooms and pillar workings well timbered and in good condition. Timbering, stoppings, overcasts and ventilation in good condition. Intake volume of air 113,580 cubic feet per minute, which is divided into five main divisions as follows:

|                               |                    |
|-------------------------------|--------------------|
| R heading and 4th Level.....  | 23,100 cubic feet. |
| 3rd Level.....                | 16,260 cubic feet. |
| 5th Level.....                | 30,030 cubic feet. |
| 6th Level.....                | 39,990 cubic feet. |
| Main dip; no one working..... | 4,200 cubic feet.  |

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113,580 cubic feet.

Power, electric, chain mining machines, and motor haulage. Haulways clean and in good repair. Drainage good. Oil for illuminating purposes, and sanitary conditions, well up to the requirements of the law. Ma-

chinery and all appliances for handling coal in good condition. Special rules are posted, stretchers on hand.

The splendid condition found at this mine is an evidence of the practical ability of the management.

GEO. T. WATSON, Supt.

J. C. THOMPSON, Mine Boss.

B. F. HOLESWORTH and J. O. M. HALL, Fire Bosses.

No. 64. *Gaston Mine*.—Gaston slope, Pittsburg vein from 7 to 9 feet thick. Three inspections of this mine were made during the year. On my last visit I found an intake volume of air divided as follows:

3rd level .....21,000 cubic feet per minute.

4th level .....50,840 cubic feet per minute.

5th & M. D. ....25,200 cubic feet per minute.

Total intake....97,040 cubic feet of air per minute well distributed throughout the mine. Gas is found in small quantities in the lower levels of this mine. The ventilating system is so well handled that it would be next to impossible to have an explosion. Drainage and timbering, good, haulways clean and in good repair. Brick stoppings, break-throughs regularly driven. Where gas is found, air is carried to working face by brattice. Sanitary and all conditions for safety are in excellent condition. The condition of this mine proves the worth of thorough, practical management.

GEORGE T. WATSON, Supt.

C. H. TARLETON, Mine Boss.

I. G. GATTAIN and J. E. TRICKETT, Fire Bosses

Nos. 65 & 66. *Monongah Mines Nos. 2 and 5*.—Drift mines, Pittsburg vein from 7 to 9 feet in thickness. Three inspections were made during the year, and on my last visit the following conditions were found: Ventilation, timbering, doors, stoppings, and overcasts were found to be in excellent condition. Haulways clean and in good repair. Oil for illuminating purposes, sanitary, and general conditions for safety, satisfactory. Electric power, motor haulage, chain mining machines. Machinery and all mechanical appliances for handling coal in excellent condition.

A. J. RUCKMAN, Supt.

DAVID VICTOR, Supt. of Mines.

THOS. KILEEN, Mine Boss.

No. 67. *Monongah Mine No. 3*.—Drift mine, Pittsburg vein from 7 to 9 feet in thickness. Three inspections of this mine were made during the year. Electric power, chain mining machines, and motor haulage. Fan furnishes a volume of air, which gives good ventilation throughout the mine. Haulways clean and in good repair. Drainage good. Timbering good. Oil for illuminating purposes, sanitation and conditions for safety fully up to the requirements of the law. Special rules are posted, stretchers on hand. Machinery in good condition. This mine is in excellent condition.

A. J. RUCKMAN, Supt.

DAVID VICTOR, Supt. of Mines.

JAS. ROGERS, Mine Boss.

No. 68. *Monongah Mine No. 6*.—Slope, Pittsburg vein from 7 to 9 feet thick. Four inspections were made of this mine during the year. On my last visit I found 107,970 cubic feet of air entering this mine per minute, as follows:

|                |                    |
|----------------|--------------------|
| Slope .....    | 60,850 cubic feet. |
| "B" Face ..... | 47,120             |

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107,970

The above volume is produced with a fan engine speed of 116 revolutions per minute and a water gauge of 1 8-10 inches. This air is well distributed throughout the mine. There are no standing gases in any of the workings of this mine and only a trace is found in "E" face and "F" face headings and room 11 on the third Butt off "C" face. Drainage good, oil for illuminating purposes, timbering and all conditions for safety up to the requirements of the law. Electric power, chain mining machine and motor haulage. All conditions in and about this mine show the wisdom of having thorough, practical mine foremen in charge.

A. J. RUCKMAN, Supt.

DAVID VICTOR, General Mine Manager.

THOS. DONLIN, Mine Boss.

GRANT PILES and THOS. BURLOCK, Fire Bosses.

No. 69. *Pennois Mine*.—Pittsburg vein from 7 to 9 feet in thickness. Three inspections were made of this mine during the year. On each visit I found good ventilation throughout the mine, drainage and timbering good, haulways clean and in good repair, oil for illuminating purposes, sanitary and general conditions for safety up to the requirements of the law. Mine machinery and all mechanical appliances for handling coal are in first class condition.

R. MILLER, Supt.

JOHN RIGGINS, Mine Boss.

No. 70. *Marion Mine*.—Drift mine, Pittsburg coal from 7 to 9 feet in thickness. Furnace and natural ventilation. On account of only having from twenty to thirty feet of surface over the coal, and a soft clay pavement, drainage is bad. Ventilation fair and conditions for safety good. Oil for illuminating purposes up to the requirements. On account of the small acreage it will only be a short time until this coal field will be worked out.

R. MILLER, Supt.

GEORGE SKINNER, Mine Boss.

No. 71. *Anderson Mine*.—Drift mine, located nine miles from Fairmont, on the M. R. division of the B. & O. R. R. Pittsburg vein from 7 to 8 feet in thickness. Developed on the double entry system. Three inspections were made of this mine during the year and on each visit I found good ventilation, good drainage, all of the haulways clean and in good repair with passing room. Oil for illuminating, sanitation and conditions for safety are up to the requirements of the law. Crosscuts are regularly driven and second openings clear of obstructions. Machinery in first class condition.

R. MILLER, Supt.

GEO. COBURN, Mine Boss.

No. 72. *Highland Mine*.—Drift mine, Pittsburg vein from 7 to 8 feet in thickness. Three inspections of this mine were made during the year. On each visit the mine was found to be in good condition and fully up to all the requirements of the law.

R. MILLER, Supt.

B. E. SATTERFIELD, Mine Boss.

No. 73. *Middleton Mine*.—Drift mine, Pittsburg vein from 7 to 9 feet in thickness. Four inspections of this mine were made during the year.

On each visit I found a good volume of air produced by fan well distributed throughout the mine. The mine is well timbered, condition of all haulways, drainage, together with all machinery and mechanical appliances in use, were found in good order. Sanitation and conditions for safety, satisfactory in every respect. Oil for illuminating purposes satisfactory. Second openings clear of obstructions, special rules posted, stretchers on hand. The mining laws are apparently well observed at this mine.

R. MILLER, Supt.

JOHN E. DENT, Mine Boss.

No. 74. *Chiefton Mine*.—Drift mine, Pittsburg vein, from 7 to 8 feet in thickness. Electric power, chain mining machines. This mine maintains its high standard of excellence. Three inspections were made during the year, and on each visit the mine throughout was found in excellent condition.

R. MILLER, Supt.

CLAUD ADDISON, Mine Boss.

No. 75. *Hutchinson Mine*.—Pittsburg vein from 7 to 8½ feet in thickness. Three regular inspections were made of this mine during the year. Ventilation was found to be excellent, haulways clean and in good repair. Oil for illuminating, sanitation and conditions for safety fully up to the requirements of the law. Crosscuts regularly driven. Special rules posted, stretchers on hand, machinery and all mechanical appliances for handling coal in a satisfactory condition.

G. W. FLEMING, Supt.

EDW. CLINGAN, Mine Boss.

#### VIRGINIA & PITTSBURG COAL & COKE CO.

No. 76. *King Mine*.—Drift mine, Pittsburg vein from 7 to 9 feet in thickness. Endless rope haulage. All pick mining. Three inspections were made of this mine during the year, and on each visit I found excellent ventilation, drainage and timbering good, haulways exceptionally clean and in good repair. Oil for illuminating purposes, sanitation and conditions for safety fully up to the requirements of the law. Special rules posted, stretchers on hand. All machinery and appliances for handling coal in good condition. Everything in and about the mine indicates care and thorough practicability.

R. M. HITE, Supt.

JOHN BROWN, Mine Boss.

#### GEORGES CREEK C. & I. CO.

Nos. 77 & 78. *Chatham Shaft Mines Nos. 1 & 2*.—Shaft mine to the Pittsburg and Sewickley coal veins. Pittsburg vein from 7 to 9 feet, Sewickley from 5 to 6 feet thick. This mine is located on the Wheeling division of the B. & O. R. R., 11 miles northwest of Fairmont. Four inspections were made of this mine during the year, and the following conditions were found: Ventilation excellent. Timbering good. Sanitary and general conditions for safety good. All coal is mined by machine. Power, compressed air. The haulways are clean and kept in excellent repair. A small amount of gas is found in this mine, but the ventilation is such and so well distributed throughout the mine that the mine is perfectly safe from a gas explosion, locked safety lamps being used. Drainage, good. Machinery and all appliances for handling coal to the tippie

are in good condition. This mine has worked well up to its capacity during the year. Seventy-five coke ovens in blast.

R. L. SOMERVILLE, Supt.

E. L. GRIFFITH, Mine Boss.

M. E. QUENNON and E. AMBROSE, Fire Bosses.

*FEDERAL C. & C. CO.*

No. 79. *Federal Shaft Mine*.—Shaft mine 254 feet to the Pittsburg vein of coal. Coal varies in thickness from 7 to 9 feet. On my last visit I found an intake of air 70,200 cubic feet per minute.

Second south .....32,050

Third south .....38,150

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70,200

This air is well distributed throughout the mine. Power, compressed air, puncher machines, with the exception of one chain machine, which the management claims is doing good work. Drainage good. Sanitation and conditions for safety good. Improvements have been made at the bottom of the shaft, the same lit up by electric lights. Engines, boilers, pumps and hoisting machinery appear to be in excellent condition.

FRED C. LEWIS, Supt.

JOHN CLARK, Mine Boss.

H. H. PIERCE, Fire Boss.

*NEW CENTRAL COAL CO.*

No. 80. *Stafford Shaft Mine*.—Shaft mine, located on the Paw Paw Branch of the B. & O. R. R., 6 miles from Fairmont. Shaft 254 feet to Pittsburg vein, which varies from 7 to 9 feet in thickness. On my last visit I found the intake of air as follows:

Second south .....29,500 cubic feet

Third south .....32,000 cubic feet

Second east .....31,500 cubic feet

Third east .....28,100 cubic feet

Making a total of 121,100 cubic feet of air per minute, well distributed throughout the mine. A small amount of gas is found, but not in dangerous quantities. Good drainage, haulways clean and in good repair, sanitary and all conditions for safety are satisfactory. Quite a number of improvements have been made at this mine within the last year. One hundred and twenty-five feet of brick arching at bottom of shaft. All conditions satisfactory.

CHARLES MACTAGGART and DUNCAN SINCLAIR, Supts.

PETER McALINDEN, Mine Boss.

*KILARM COAL & COKE CO.*

No. 81. *Kilarm Mine*.—Drift mine, Pittsburg vein. Coal from 5 to 8 feet in thickness. Ventilation, drainage and timbering good, oil for illuminating purposes, sanitation and conditions for safety satisfactory. Machinery good, second opening clear of obstructions, special rules posted, stretchers on hand and mining laws are complied with.

G. E. ZEEK, Supt.

P. J. ROONEY, Mine Boss.

*POWELL C. & C. CO.*

No. 82. *Powell Mine*.—Slope mine to the Upper Kittanning coal vein.

This mine is located on the Wheeling division of the B. & O. R. R. Was opened to supply coal for coking purposes. A plant of a hundred ovens has been completed. Large and expensive washers have been installed, but as yet have not been put in operation. Conditions in and about the mine are satisfactory.

C. A. OSBORN, Supt. J. McDONALD and J. E. HAMILTON, Mine Bosses.

#### MONONGALIA COUNTY.

##### OPEKISKA C. & C. CO.

No. 83. *Opekiska Mine*.—Drift mine, Pittsburg vein, which varies from 7 to 12 feet in thickness. Ventilation good. Drainage, only fair, and on account of a great many breaks to the surface in wet weather it is impossible to have clean roads and good drainage. All other conditions are satisfactory. Three inspections were made of this mine during the year. W. S. WOOD, Supt. FRANK LOVE, Mine Boss.

##### FAIRMONT COAL CO.

No. 84. *Beechwood Mine*.—Drift mine to Pittsburg coal, which varies in thickness from 7 to 9 feet. Electric power, Jeffrey mining machines, motor haulage; ventilation good, drainage good, timbering and all conditions for safety in first class condition, haulways are kept clean and in good repair. Illuminating oil up to the standard. Everything in and about this mine appears to be in first class condition.

W. W. FERGUSON, Supt.

LEE COTTRILLE, Mine Boss.

##### WEST VIRGINIA COAL CO.

No. 85. *Richard Mine No. 1*.—Drift mine, Freeport coal, from four to five feet in thickness. Seventy-five bee hive coke ovens have been completed. New engines have been installed to handle coal by rope haulage. Power, compressed air, chain mining machine. Three inspections were made during the year. Fan ventilation furnishes a good volume of air, which is well distributed throughout the working places. Drainage fair. Timbering good. Oil for illuminating, sanitary and other conditions for safety fully up to the requirements of the law.

JAMES CARTER, Supt. J. MURRAY and J. M. HEASTER, Mine Bosses.

##### DECKER'S CREEK COAL & COKE CO.

No. 86. *Decker's Creek Mine*.—Drift mine. Freeport coal from four to five feet in thickness. This mine has not been in operation to any extent during the year. Two inspections were made. On my last visit I found only three miners at work. Ventilation fair. Drainage good and all other conditions satisfactory.

J. J. COLLINS and R. H. KING, Supts.

J. T. KRAMER, Acting Mine Boss.

##### A. C. FULMER & CO.

No. 87. *Fulmer Mine*.—Made one visit to this mine during the year, found all conditions in and about the mine satisfactory. Shortly after my visit the mine was closed down and has not resumed operation.

JOHN MILLER, Supt. and Mine Boss.



## MARSHALL COUNTY.

## HITCHMAN COAL &amp; COKE CO.

No. 88. *Hitchman Mine*.—This mine was regularly inspected three different times during the year, when the conditions in regard to safety were found good. Ventilation and drainage are good. Small quantities of explosive gas is found when cutting clay veins, but not in dangerous quantities. Electric haulage was installed in this mine during the year. Rules are posted, blankets and stretchers kept on hand, and oil used meets the requirements of the law.

A map showing the mine workings, extended to September, 1903, has been furnished this office.

W. H. KOCH, Supt.

E. C. PICKETT, Mine Boss.

IKE MURRAY, Fire Boss.

## BOGGS RUN M. &amp; M'FG CO.

No. 89. *Boggs Run Mine*.—This mine was regularly inspected three different times during the year, when the conditions in regard to safety were found good. Ventilation of this mine is not as good as it should be, due to falls of slate in in-take air way and to trap door being used at mouth of mine. The mine has rope haulage and hauling long trips does not permit trip of loaded cars to be pulled out far enough from door for it to be closed, necessitating the door standing open while part of trip was being dumped. The attention of the management was called to this and a request made that an air-way from fan be driven to a point farther in on main haulway; for door to be moved far enough in to permit the entire trip to be pulled through and door immediately closed; and for the fallen slate to be removed from air-way. Drainage fairly good in all parts of the mine. Rules are posted, blankets and stretchers kept on hand, and a fair quality of oil used.

A map showing mine workings, extended to July, 1903, has been furnished this office.

PHILIP KUNZ, Supt.

EUGENE MILLER, Mine Boss.

## WHEELING STEEL &amp; IRON CO.

No. 90. *Benwood Mine*.—This mine was regularly inspected three different times during the year, when the conditions in regard to safety were found good. Ventilation and drainage first class in all parts of the mine. Rules are posted, blankets and stretchers kept on hand, and oil used meets the requirements of the law.

A map, showing mine workings, extended to May, 1904, has been furnished this office.

C. DAWSON, Supt.

WILLIAM TURNBULL, Mine Boss.

## GLENDALE COAL CO.

No. 91. *Glendale Shaft Mine*.—This mine was regularly inspected three different times during the year, when the conditions in regard to safety were not of the best. Hoisting cages were found to be worn out, and in several places on main haulway the roof was badly broken. Ventilation was bad in some parts of the mine, due to intake air way being badly clogged with falls of slate, and water, and a mistake in construction of

the fan house. The attention of the management was called to these evils and an urgent request made that they be remedied. New cages have been installed, construction of fan house changed as suggested, intake air way cleared of falls of slate and water, which has increased the ventilation at intake from 16,000 cubic feet to 24,000 cubic feet per minute. Some timbering has been done, but considerable remains to be done yet. The management has promised that this shall be done. Drainage is bad in places on main haulway. Rules are posted, blankets and stretchers kept on hand. Oil used meets the requirements of the law.

A map, showing mine workings extended to Decemehr 15th, 1904, has been furnished this office.

J. E. WALLACE, Supt.

J. W. SMITH, Mine Boss.

#### MOUND COAL CO.

No. 92. *Moundville Shaft*.—This mine was regularly inspected three different times during the year, when the conditions in regard to safety were found good. Ventilation and drainage are fairly good throughout the mine. New hoisting cages have been installed during the year. Rules are posted, and blankets and stretchers kept on hand. Oil used is of fair quality.

A map, showing mine workings extended to June, 1904, has been furnished this office.

JOHN BERRY, Supt.

JAKE LEONARD, Mine Boss.

TOM PETERS, Fire Boss.

#### GLEN EASTON C. & C. CO.

No. 93. *Hicks Run Shaft Nos. 1, 2 & 3*.—Mine work was begun on these shafts the summer of 1903. No. 1 is down 195 feet, No. 2 20 feet and No. 3 185 feet, or to the coal, the No. 8 or Pittsburg, which at this place has a thickness of 6 feet. The Sewickley seam was found in this opening at a depth of 100 feet, showing a thickness  $6\frac{1}{2}$  feet of clean coal. Most of the machinery is on the ground, but for some reason all work has been stopped for the past six months.

#### OHIO COUNTY.

##### JOCHUM & CO.

No. 94. *Jochum Mine*.—This mine employs less than ten men. It has only been visited once during the year. No regular report has been made. The mine supplies domestic trade only.

Conditions in regard to safety were found good. Ventilation and drainage fairly good.

JOHN JOCHUM, Supt. and Mine Boss.

##### W. H. KASLEY.

No. 95. *Whitaker Mine*.—This mine was regularly inspected three different times during the year, when the conditions in regard to safety were found good. Ventilation has been greatly improved by an electric motor being attached to fan and steam power being discontinued. Drainage throughout is good. Rules are posted, but blankets and stretchers are not kept on hand as required by law. Oil used meets the requirements of the law.

A map of this mine showing workings extended to July, 1904, has been furnished this office.

W. H. KASLEY, Supt.

WILLIAM MAGRUDER, Mine Boss.

*RICHLAND COAL CO.*

No. 96. *Richland Mine.*—This mine was regularly inspected three different times during the year, when the conditions in regard to safety were found good. Ventilation and drainage are good. Rules are posted, and blankets and stretchers kept on hand. The oil used meets the requirements of the law.

A map showing mine workings extended to June, 1904, has been furnished this office.

WILLIAM PHILLIPS, Supt.

JOHN AITKINS, Mine Boss.

*ELM GROVE COAL CO.*

No. 97. *Elm Grove Shaft.*—This mine was regularly inspected three different times during the year, when the conditions in regard to safety were found not to be of the best. It was noticed that the timbering in hoisting shaft had become badly decayed; that hoisting cages were very much worn; that timbering at shaft bottom was bad; intake airway was badly clogged with falls of slate and water. These defects were pointed out to the management, and an urgent request made that they be remedied. On June 13th, date of my last visit, I found the intake airway had been cleared of obstructions, that ventilation in all parts of the mine was good, and that the timber for retimbering shaft was being delivered as fast as possible. The management stated as soon timbering was completed that new cages with safety catches would be installed. Drainage throughout the mine is good. Rules are posted, but blankets and stretchers are not kept on hand as required by law. Oil used meets with the standard requirements.

A map, showing mine workings extended to May, 1904, has been furnished this office.

J. B. CHAMBERS, Supt.

ELEX McGLONE, Mine Boss.

J. E. DIETZ, Fire Boss.

*REYMANN BREWING CO.*

No. 98. *Manchester Mine.*—This mine was regularly inspected three different times during the year, when the conditions in regard to safety were found good. Ventilation and drainage were fairly good in all parts of the mine. Rules are posted, but blankets and stretchers are not kept on hand. Oil used meets the requirements of the law.

A map, showing the workings of this mine, has been furnished this office.

C. C. SCHMIDT, Supt.

JOHN DONAHUE, Mine Boss.

*WHEELING STEAM COAL CO.*

No. 99. *McKinley Mine.*—This mine has been regularly inspected three different times during the year, when the conditions in regard to safety were found good. Ventilation and drainage were not as good as they should be. The suggestions were offered that furnace stack be increased in height and that a pump be installed in the mine to remove the water.

Rules are posted, but blankets and stretchers are not kept on hand as required by law. Oil used meets the requirements of the law.

A copy of mine map, showing workings extended to June, 1904, has been furnished this office.

J. C. McKINLEY, Supt.

PAUL LEONARD, Mine Boss.

*LA BELLE IRON WORKS.*

No. 100. *La Belle Mine.*—This mine has been idle for the past year and has not been visited.

WILLIAM H. TRAVIS, Supt.

RICHARD BLON, Mine Boss.

## SECOND DISTRICT.

### GENERAL SUMMARY OF THE SECOND DISTRICT FOR THE YEAR ENDING JUNE 30, 1904.

| COUNTY. | Number of Openings. | EMPLOYEES.   |                 |                            |           |        |          |               | Grand Total. | No. of Men Killed. | PRODUCTION.                     |                                |
|---------|---------------------|--------------|-----------------|----------------------------|-----------|--------|----------|---------------|--------------|--------------------|---------------------------------|--------------------------------|
|         |                     | Inside.      |                 |                            |           |        | Outside. |               |              |                    | Coal<br>(tons of<br>2,240 lbs.) | Coke<br>(tons of<br>2,000 lbs) |
|         |                     | Pick Miners. | Machine Miners. | Machine Runners & Helpers. | Laborers. | Total. | Laborers | Coke Workers. |              |                    |                                 |                                |
| Clay    | 6                   | 48           | 30              | 6                          | 7         | 91     | 37       | 37            | 128          | 1                  | 2,860                           |                                |
| Kanawha | 121                 | 2,072        | 1,540           | 334                        | 1,232     | 5,178  | 803      | 26            | 829          | 8                  | 2,792,078                       | 9,547                          |
| Lincoln | 2                   | 70           |                 |                            | 8         | 78     | 5        |               | 83           |                    | 31,744                          |                                |
| Mason   | 9                   | 222          |                 |                            | 47        | 269    | 34       |               | 34           | 303                | 89,009                          |                                |
| Putnam  | 8                   | 756          | 12              | 2                          | 138       | 908    | 139      |               | 139          | 1,047              | 295,914                         |                                |
| Totals  | 146                 | 3,168        | 1,582           | 342                        | 1,432     | 6,524  | 1,018    | 26            | 1,044        | 7,568              | 3,211,605                       | 9,547                          |

#### OFFICE OF THE SECOND DISTRICT MINE INSPECTOR,

Clifton, W. Va., Sep. 30, 1904.

HON. JAMES W. PAUL,  
Chief Mine Inspector,  
Charleston, W. Va.

SIR:—I herewith respectfully submit, to you for your consideration, my annual report as Inspector of Mines for the Second District of West Virginia, for the year ending June 30th, 1904.

During the year I made 227 regular inspections and 38 visits for the purpose of investigating accidents and other matters.

The general condition of nearly all the mines in the district, at the close of the year, was satisfactory. There are a few mines that are not in as good condition as they might be, but this is due to the neglect of the parties in charge of these mines rather than to the operators who, as a rule, are anxious to have their mines in as good and safe condition as possible, so that accidents may not occur. I am sorry to say that I have had a great deal of trouble to get the break-throughs cut at the proper distances, as it appears that some mine bosses endeavor to force men to work in places where they would not work themselves. It is almost impossible to get many of them to understand the necessity of keeping the mine doors and stoppings in proper condition, so that the air current may be properly distributed throughout the mine.

During the year electric plants were installed at the mines of the following companies:

Dorfee Coal Mining Co.,  
Belleclare Coal Co.,  
Cherokee Coal Co.,  
M. T. Davis Coal Co.,

Kellys Creek Colliery Co.,  
Cardiff Coal Co., (at Climax Mine)  
Leewood Colliery Co.,  
Caledonian Coal Co.,  
La Mont Mining Co.,  
United Colliery Co.,  
Standard Splint & Gas Coal Co.,  
Republic Coal Co.,  
Pawnee Coal Co.,  
Coalburg Colliery Co.

Compressed air plants were installed at the following mines:

Quarrier Mine,  
Imperial Mine No. 1.

There are now seventy-eight mines in the Second District, where practically all of the coal is mined by electric machines, the Morgan-Gardner and Jeffrey machines being used principally. Several other mines are now making preparations to install this system of mining.

During a portion of the year a great many of the mines have not been operated to their full capacity. Quite a number of new mines has been put into operation this year, and improvements of a permanent character made at many of the old ones, among which is the construction of several tipples.

To secure a better system of ventilation fans have been installed at fourteen mines. I am glad to be able to report that practically all of the operators agree that the fan is the best and most economical system of ventilation.

The following is a list of the companies which have not furnished me maps of their mines. The first eight companies on this list have been in operation less than six months and for this reason maps of their mines have not been placed on file:

Clendenin Coal Co., Ohio C. M. Co., M. T. Davis C. Co., Caledonian Coal Co., Hughes Creek C. Co., Dorfee C. M. Co., Lucas Ray C. Co., Jefferson C. Co., Pen Mar M. Co., New Diamond C. Co., Kanawha & Hocking Mine No. 108, Kellys Creek Colliery Co., The Willis C. & C. Co., Peerless Gas C. Co., Cardiff Coal Co. (3 mines), Holly Coal Co., Red Warrior C. Co., Leewood Colliery Co., West Virginia Colliery Co., West Virginia Peerless C. Co., Hope S. & C. Co., Mason City M. Co., Liverpool S. & C. Co., Hartford City S. Co., Klondike C. Co., Thos. D. Harris C. Co., Manilla Mine of the Plymouth C. & M. Co., and Oak Forest C. & M. Co.

I desire to acknowledge the very courteous treatment that I have received at the hands of the miners and operators throughout my district, and I also wish to thank you for your valuable assistance during the year.

Yours very truly,

EARL A. HENRY,  
*Mine Inspector 2nd District.*

*CONDITION OF THE MINES IN THE SECOND MINING DISTRICT.**EARL A. HENRY, INSPECTOR.*

(NOTE.—Mines Nos. 103 to 106, inclusive, and No. 213 were inspected and reported upon by Mr. Pinkney, the Inspector of the Third Mining District.)

## CLAY COUNTY.

*DORFEE COAL MINING COMPANY.*

No. 101. *Elk Manor Mine.*—This is a new mine, having been opened during the present year. It is located on Elk river, has four distinct openings, and operates the Winifrede seam, which varies in thickness from 4 to 4½ feet. The roof is good; drainage moderate. The present system of ventilation is by a temporary furnace, but preparations are being made to install a fan in the near future. The coal is mined by electric chain-cutter machines, with good results. The oil used for illuminating purposes meets with legal requirements. Rules are posted, and stretchers and blankets kept on hand as required by law.

GEORGE W. LARUE, Supt.

W. H. MEASE, Mine Boss.

*OHIO COAL MINING COMPANY.*

No. 102. *Ohio Mine.*—This mine was opened during the year and operates the No. 5 seam, which has a thickness of 3½ feet; it is developed on the double entry system. The roof and drainage are good. The mine is properly timbered, and it is ventilated by natural means. It is the intention to install a mechanical system of ventilation in the near future. Rules are not posted, nor stretchers kept on hand, as required by law.

This mine is located on the main line of the Coal and Coke Railway. Having been but recently opened, as yet the capacity of the mine is small.

J. R. FLAHERTY, Supt.

THOMAS KING, Mine Boss.

103 MALCOLM COAL CO.

104 WILLEY COAL CO.

105 CARTER COAL CO.

Nos. 103, 104 & 105.—These mines are all located on Bell Creek, and the developments are in the Coalburg seam. These operations were visited once during the latter part of the year, at which time the switches were being graded and all other equipment being installed.

S. L. WALKER, Gen. Man., Malcolm and Willey Mines.

WM. TAMPLIN, Gen. Man., Carter Mine.

*GAULEY CONSOLIDATED COAL CO.*

No. 106. *Scott Mine.*—This operation is located on Bell Creek and on the Gauley branch of the C. & O. R. R. The developments are in the Coalburg seam. No switch was laid and tipple and other necessary equipment were unfinished when this operation was visited during the year.

S. L. WALKER, Gen. Man.

A. M. ROBINSON, Supt.

DAVID PUGH, Mine Boss.

## KANAWHA COUNTY.

*FALLING ROCK CANNEL COAL COMPANY.*

No. 107. *Jones Mine.*—This mine was regularly inspected during the

year, when the conditions in regard to roof, ventilation, and general safety were found to be good. Drainage moderate. Oil used meets the requirements of law. The mine is properly timbered, and stretchers and blankets kept on hand.

H. G. YOUNG, Supt.

R. B. YOUNG, Mine Boss.

*KEYSTONE COAL COMPANY.*

No. 108. *Graham Mines.*—This mine has been idle the greater portion of the year, and for this reason only one inspection was made, at which time the ventilation and drainage were found to be very deficient. Mine doors and stoppings were in bad condition. Oil for illuminating purposes meets with legal requirements. Rules are not posted, nor stretchers kept on hand as required.

PETER BENTLEY, Supt.

N. C. POSTEN, Mine Boss.

*ELK COAL COMPANY.*

No. 109. *Queen Shoals Mine.*—This mine was regularly inspected during the year, when the conditions in regard to ventilation and drainage were found to be fairly good. The mine is properly timbered and oil used for illuminating purposes meets the requirements of law. Rules are posted and stretchers kept on hand as required.

HENRY DAVIS, Supt.

GEORGE POWERS, Mine Boss.

No. 110. *Turner Mine.*—This mine was regularly inspected during the year, when the conditions in regard to safety were found to be good. Ventilation fair, drainage moderate. The mine is properly timbered. Oil used for illuminating purposes meets the requirements of law. Stretchers are kept on hand as required. Rules are posted at the mine.

HENRY DAVIS, Supt.

R. P. THOMPSON, Mine Boss.

No. 111. *Morris Creek, No. 2.*—This mine was regularly inspected during the year, when the conditions in regard to safety and ventilation were found to be good. A ten-foot Thayer fan has been installed, and gives satisfactory results. The oil meets with legal requirements. Rules are posted and stretchers kept on hand as required. The mine is properly timbered; drainage, fair.

The superintendent of this mine endeavors to comply with the State Mine law in every detail.

HENRY DAVIS, Supt.

R. P. THOMPSON, Mine Boss.

*CLENDENIN COAL AND COKE COMPANY.*

No. 112. *Cleundenin Mine.*—This mine has been idle the greater portion of the year and for this reason but one inspection has been made, at which time the conditions in regard to ventilation, drainage, and general safety were found to be good. The mine was properly timbered. Oil used meets the legal requirements.

Deficiencies—no rules posted nor stretchers on hand as required.

GEORGE W. GAGHAN, Supt.

GEORGE THOMPSON, Mine Boss.

*LUCAS RAY COAL COMPANY.*

No. 113. *Lucas Ray Mine.*—This mine was opened during the year, and operates the No. 5 seam, which has a thickness of  $3\frac{1}{2}$  feet, and is developed on the double entry system. The roof is good; drainage fair. The



mine is properly timbered and ventilated by natural causes. It is the intention to install a mechanical system of ventilation in the near future. Rules are not posted, nor stretchers kept on hand, as required by law.

This mine is located on Morris Creek, on a branch line of the Coal & Coke Railway. Having been but recently opened, as yet the capacity of the mine is small.

SAMUEL SIMPKINS, Supt.

SAMUEL SIMPKINS, Mine Boss.

#### JEFFERSON COAL & COKE COMPANY.

No. 114. *Heatherman Mine*.—This mine was opened during the year, and operates the No. 5 seam, having a thickness of 4 feet. It is developed on the double entry system; roof and drainage good. The mine is properly timbered, and ventilated by a furnace which gives satisfactory results. Oil used meets the legal requirements and stretchers are kept on hand.

This mine is located on Morris Creek, on a branch of the Coal and Coke Railway. Having been but recently opened, as yet the capacity of the mine is small.

JAMES HEATHERMAN, Supt.

METRO PATRICK, Mine Boss.

#### PEN MAR MINING COMPANY.

No. 115. *Pen Mar Mine*.—This mine was opened during the year and operates the No. 5 seam, which has a thickness of  $4\frac{1}{2}$  feet. Developments are on the single and double entry systems. This mine was inspected twice during the year, at which times the conditions in regard to ventilation and drainage were very bad. The present system of ventilation is by natural means, which gives very unsatisfactory results. The roof is good and the mine fairly well timbered. Oil used meets with the requirements of the law. As yet, rules are not posted at the mine, nor stretchers on hand. A letter was addressed to the management calling attention to the deficiency in the ventilation and drainage, with the request that the same be remedied.

J. G. GALBREATH, Supt.

CHARLES JOHNSON, Mine Boss.

#### J. G. VAUGHAN.

No. 116. *Sycamore Mine*.—This mine was regularly inspected once during the year, when the conditions in regard to safety, ventilation and drainage were found to be good. At the time of this inspection no rules were posted at the mine, nor stretchers kept on hand. Oil used meets the requirements of law. At present the developments are small.

J. G. VAUGHAN, Supt.

J. H. VAUGHAN, Mine Boss.

#### MILL CREEK CANNEL COAL COMPANY.

No. 117. *Mill Creek Mine*.—This mine was regularly inspected twice during the year, when the conditions in regard to safety, ventilation, and drainage were found to be very good. The mine is properly timbered, and the oil used meets legal requirements. Rules are posted at the mine, and stretchers and blankets kept on hand.

W. E. BROOKS, Supt.

JOHN HOLMES, Mine Boss.

**BLACK HAWK COAL COMPANY.**

No. 118. *Black Hawk Mine.*—This mine being idle a portion of the year, only one inspection was made, at which time the conditions in regard to ventilation and drainage were found to be bad. The roof is fairly good and the mine properly timbered. Oil used meets the requirements of the law. Rules are posted at the mine and stretchers kept on hand.

A letter was addressed to this company calling its attention to the deficiency in drainage and ventilation, with the request that the same be remedied.

E. H. ROBERTSON, Supt.

J. B. LAWRENCE, Mine Boss.

**CAMPBELL'S CREEK COAL COMPANY.**

No. 119. *Calderwood, or New Mine.*—This mine was regularly inspected twice during the year, when the conditions in regard to ventilation and drainage were found to be generally good. The principal work at this mine is the robbing of pillars. The roof is good, except in some sections, where there is a draw slate from 8 to 15 inches thick, which is of a very dangerous and uncertain nature; but the miners are well supplied with timber for propping and the mine is well timbered. Oil used meets the requirements of law. Rules are posted at the mine and blankets and stretchers kept on hand. This company endeavors to comply with the Mining Law in every particular.

W. V. RENSFORD, Supt.

W. B. CALDERWOOD, Mine Boss.

No. 120. *Co-operative, or Mine No. 1.*—This mine was regularly inspected twice during the year, when the condition in regard to the general safety of all entries and rooms was found to be good. The roof is good and the mine properly timbered. Drainage moderate. Haulways are kept in good condition, with sufficient room for workmen to pass the cars. Oil used meets with the requirements of law, and rules are posted at the mine. Stretchers and blankets are kept on hand. This company takes pride in keeping the mine in first class condition and endeavors to comply with the Mining Law in every detail.

W. V. RENSFORD, Supt.

W. B. CALDERWOOD, Mine Boss.

**NEW DIAMOND COAL COMPANY.**

No. 121. *Black Diamond Mine.*—This mine was regularly inspected twice during the year, when the conditions in regard to ventilation and drainage were only moderate, as they depend on natural means for ventilation. The roof is fairly good and the mine is well timbered. Oil used meets the requirements of law. Preparation are being made for a better system of drainage. Rules were not posted at the mine, nor stretchers kept on hand as required by law.

ARTHUR ROBINSON, Supt.

JAMES HEMMINGS, Mine Boss.

**QUINCY COAL COMPANY.**

No. 122. *Quincy Mine.*—This mine was regularly inspected twice during the year, when the condition in regard to ventilation was only fair; which deficiency was due to the furnace not being properly fired and neglect to construct mine doors for the proper distribution of the air. Oil used meets the requirements of law. The mine is properly timbered and

mine is properly timbered and ventilated by natural causes. It is the intention to install a mechanical system of ventilation in the near future. Rules are not posted, nor stretchers kept on hand, as required by law.

This mine is located on Morris Creek, on a branch line of the Coal & Coke Railway. Having been but recently opened, as yet the capacity of the mine is small.

SAMUEL SIMPKINS, Supt.

SAMUEL SIMPKINS, Mine Boss.

*JEFFERSON COAL & COKE COMPANY.*

No. 114. *Heatherman Mine.*—This mine was opened during the year, and operates the No. 5 seam, having a thickness of 4 feet. It is developed on the double entry system; roof and drainage good. The mine is properly timbered, and ventilated by a furnace which gives satisfactory results. Oil used meets the legal requirements and stretchers are kept on hand.

This mine is located on Morris Creek, on a branch of the Coal and Coke Railway. Having been but recently opened, as yet the capacity of the mine is small.

JAMES HEATHERMAN, Supt.

METRO PATRICK, Mine Boss.

*PEN MAR MINING COMPANY.*

No. 115. *Pen Mar Mine.*—This mine was opened during the year and operates the No. 5 seam, which has a thickness of 4½ feet. Developments are on the single and double entry systems. This mine was inspected twice during the year, at which times the conditions in regard to ventilation and drainage were very bad. The present system of ventilation is by natural means, which gives very unsatisfactory results. The roof is good and the mine fairly well timbered. Oil used meets with the requirements of the law. As yet, rules are not posted at the mine, nor stretchers on hand. A letter was addressed to the management calling attention to the deficiency in the ventilation and drainage, with the request that the same be remedied.

J. G. GALBREATH, Supt.

CHARLES JOHNSON, Mine Boss.

*J. G. VAUGHAN.*

No. 116. *Sycamore Mine.*—This mine was regularly inspected once during the year, when the conditions in regard to safety, ventilation and drainage were found to be good. At the time of this inspection no rules were posted at the mine, nor stretchers kept on hand. Oil used meets the requirements of law. At present the developments are small.

J. G. VAUGHAN, Supt.

J. H. VAUGHAN, Mine Boss.

*MILL CREEK CANNEL COAL COMPANY.*

No. 117. *Mill Creek Mine.*—This mine was regularly inspected twice during the year, when the conditions in regard to safety, ventilation, and drainage were found to be very good. The mine is properly timbered, and the oil used meets legal requirements. Rules are posted at the mine, and stretchers and blankets kept on hand.

W. E. BROOKS, Supt.

JOHN HOLMES, Mine Boss.

**BLACK HAWK COAL COMPANY.**

No. 118. *Black Hawk Mine.*—This mine being idle a portion of the year, only one inspection was made, at which time the conditions in regard to ventilation and drainage were found to be bad. The roof is fairly good and the mine properly timbered. Oil used meets the requirements of the law. Rules are posted at the mine and stretchers kept on hand.

A letter was addressed to this company calling its attention to the deficiency in drainage and ventilation, with the request that the same be remedied.

E. H. ROBERTSON, Supt.

J. B. LAWRENCE, Mine Boss.

**CAMPBELL'S CREEK COAL COMPANY.**

No. 119. *Calderwood, or New Mine.*—This mine was regularly inspected twice during the year, when the conditions in regard to ventilation and drainage were found to be generally good. The principal work at this mine is the robbing of pillars. The roof is good, except in some sections, where there is a draw slate from 8 to 15 inches thick, which is of a very dangerous and uncertain nature; but the miners are well supplied with timber for propping and the mine is well timbered. Oil used meets the requirements of law. Rules are posted at the mine and blankets and stretchers kept on hand. This company endeavors to comply with the Mining Law in every particular.

W. V. RENSFORD, Supt.

W. B. CALDERWOOD, Mine Boss.

No. 120. *Co-operative, or Mine No. 1.*—This mine was regularly inspected twice during the year, when the condition in regard to the general safety of all entries and rooms was found to be good. The roof is good and the mine properly timbered. Drainage moderate. Haulways are kept in good condition, with sufficient room for workmen to pass the cars. Oil used meets with the requirements of law, and rules are posted at the mine. Stretchers and blankets are kept on hand. This company takes pride in keeping the mine in first class condition and endeavors to comply with the Mining Law in every detail.

W. V. RENSFORD, Supt.

W. B. CALDERWOOD, Mine Boss.

**NEW DIAMOND COAL COMPANY.**

No. 121. *Black Diamond Mine.*—This mine was regularly inspected twice during the year, when the conditions in regard to ventilation and drainage were only moderate, as they depend on natural means for ventilation. The roof is fairly good and the mine is well timbered. Oil used meets the requirements of law. Preparation are being made for a better system of drainage. Rules were not posted at the mine, nor stretchers kept on hand as required by law.

ARTHUR ROBINSON, Supt.

JAMES HEMMINGS, Mine Boss.

**QUINCY COAL COMPANY.**

No. 122. *Quincy Mine.*—This mine was regularly inspected twice during the year, when the condition in regard to ventilation was only fair; which deficiency was due to the furnace not being properly fired and neglect to construct mine doors for the proper distribution of the air. Oil used meets the requirements of law. The mine is properly timbered and

the roof and drainage generally good. Rules are posted at the mines and stretchers kept on hand as required. Electric mining machines are used very successfully at this mine.

WILLIAM DICKINSON, Supt.

W. J. KRANTZ, Mine Boss.

**KANAWHA AND HOCKING COAL AND COKE COMPANY.**

No. 123. *K. & H. Mine No. 101.*—This mine was regularly inspected during the year, when the condition in regard to ventilation was found to be poor, as this was secured by natural means; but at the time of last inspection a fan was on the grounds and preparations being made to install the same. Electric mining machines can only be used in some parts of this mine, owing to the bad condition of the roof, which is slate of such an uncertain nature as to give a good deal of trouble. The miners are well supplied with timber, and the mine is fairly well timbered. Oil used meets the requirements of law. Rules are posted at the mine and stretchers kept on hand.

This mine generates a large quantity of water and the drainage is only moderate.

W. F. MANDT, Supt.

JAMES KENNEDY, Mine Boss.

No. 124. *K. & H. Mine No. 103.*—This mine was regularly inspected twice during the year, when the condition in regard to ventilation was found to be only fair, this deficiency being due to the bad condition of the engine used to operate the fan. The mine is practically dry, has an excellent roof, and is well timbered. Mine doors and stoppings are not in good condition. Oil used meets the requirements, rules are posted at the mine, and stretchers kept on hand.

W. F. MANDT, Supt.

JOSEPH S. MILLER, Mine Boss.

No. 125. *K. & H. Mine No. 104.*—This mine was regularly inspected during the year, at which time the condition as to ventilation was found to be poor, this being due to the bad condition of mine doors and stoppings, as well as to the slow speed of the fan caused by the defective engine operating it. The mine is practically dry, has an excellent slate roof, and is properly timbered. Oil used meets with the requirements of law. Rules are posted and stretchers on hand.

A letter was addressed to the management calling attention to the deficiency in ventilation, with the request that the same be remedied without unnecessary delay.

W. F. MANDT, Supt.

JOSEPH S. MILLER, Mine Boss.

No. 126. *K. & H. Mine No. 105.*—This mine was regularly inspected during the year, at which time the conditions in regard to general safety, ventilation, and drainage were found to be first class throughout the mine. Mine doors and stoppings are in good repair. Haulways are clear, with ample passing room. Oil used meets with requirements of law, rules are posted at the mine, stretchers kept on hand, and an ambulance wagon is kept in readiness in case of accident.

This mine has the best system of ventilation of all the mines in the Second District.

W. F. MANDT, Supt.

HARRY E. SAYLOR, Mine Boss.

No. 127. *K. & H. Mine No. 106.*—This mine was regularly inspected during the year, at which time the condition in regard to safety was found

to be good. The roof is slate and very good, except in some sections, where there is a draw slate from 6 to 8 inches in thickness. The mine is properly timbered and the drainage good. Ventilation fairly good, mine doors and stoppings in good repair. Haulways are kept clear from side obstructions and have ample passing room. Oil used meets the requirements of law, stretchers are kept on hand, and rules posted at the mine.

W. F. MANDT, Supt.

H. E. SAYLOR, Mine Boss.

No. 128. *K. & H. Mine No. 108.*—This mine has been idle a greater portion of the year and for this reason but one inspection was made, at which time the conditions in regard to ventilation and drainage were found to be good. The roof is slate and good, except on the north side of the mine, where there is a draw slate from 6 to 7 inches in thickness, which has to be taken down. The mine is well timbered. Oil used meets with the requirements of the law. Stretchers are kept on hand and rules posted at the mine.

W. F. MANDT, Supt.

HARVEY WILLS, Mine Boss.

No. 129. *K. & H. Mine No. 109.*—This mine was idle several months during the year and for this reason but one inspection was made, at which time the condition in regard to ventilation was found to be deficient, which was due to the very bad condition of mine doors and stoppings. Drainage is moderately good. The roof is good and the mine fairly well timbered. Oil used meets the requirements of law. Stretchers are kept on hand and rules posted at the mine.

The superintendent's attention was called to the bad condition of mine doors and stoppings, with the request that the same be put in repair.

W. F. MANDT, Supt.

H. J. WILLS, Mine Boss.

No. 130. *K. & H. Mine No. 110.*—This mine was regularly inspected during the year, when the conditions in regard to ventilation were found to be only fair, owing to the large developments and neglect to keep mine doors and stoppings in good repair. Drainage moderate, roof fairly good, and the mine is properly timbered. Oil used meets with the requirements of law. Stretchers are kept on hand and rules posted at the mine.

The superintendent's attention was called to the bad condition of the mine doors and stoppings, with the request that the same be repaired.

W. F. MANDT, Supt.

JOSEPH S. MILLER, Mine Boss.

No. 131. *K. & H. Mine No. 119.*—This mine has been idle for several months and for this reason but one inspection was made. Ventilation, secured by natural causes, is very good, as there are several openings near the working places. Some sections of the mine are very wet, drainage only moderate. The roof is slate and good, with the exception of some sections, where the draw slate is from 8 to 12 inches thick and has to be taken down or carefully timbered, to insure safety. The mine is well timbered.

The company is undecided as to when this mine will resume operation.

W. F. MANDT, Supt.

PAT NEYLAN, Mine Boss.

#### KELLYS CREEK COLLIERY COMPANY.

No. 132. *Kellys Creek Mine.*—This mine was regularly inspected twice

during the year, when the conditions in regard to ventilation and drainage were found to be very good. The Coalburg seam is operated, and has a thickness of from  $4\frac{1}{2}$  to 5 feet. The roof is slate and only fairly good. The mine is well timbered and oil used meets with the requirements of law. Stretchers are kept on hand and rules posted at the mines.

An electric plant has been installed, and the coal is very successfully mined by electric mining machines. This company endeavors to comply with the Mine Laws in every detail.

L. W. PRYOR, Supt.

WILLIAM H. SHANNON, Mine Boss.

#### CANNELTON COAL COMPANY.

No. 133. *Cannelton Mine No. 2.*—This mine was regularly inspected during the year, when the condition in regard to safety was found to be good throughout the mine. Ventilation was somewhat deficient, this being due to the very bad conditions of mine doors and stoppings. The mine is practically dry and has an excellent slate roof. Haulways are kept clear of all obstructions and have ample passing room. Oil used meets the requirements of law, rules are posted at the mine, and stretchers and blankets on hand.

The foreman's attention was called to the bad condition of the mine doors and stoppings, with the request that the same be repaired.

LANGDON LEA, Supt.

CHARLES BIERNE, Mine Boss.

#### THE WILLIS COAL AND COKE COMPANY.

No. 134. *Shrewsbury Mine.*—This mine has been idle the greater portion of the year, and for this reason but one inspection was made, at which time the conditions in regard to safety, ventilation and drainage were found to be good. This is a new mine and as yet the capacity is very small, only a few miners being employed. Rules are not posted at the mine, nor stretchers nor blankets on hand as required by law.

J. H. SHREWSBURY, Supt.

D. S. STONE, Mine Boss.

#### THE MARMET COMPANY.

No. 135. *Lens Creek Mine.*—This mine was regularly inspected twice during the year, when the condition in regard to ventilation was found to be somewhat deficient, which was due to the improper construction of the furnace. The mine generates very little water. Drainage good. The roof is good, with the exception of one section, where the draw slate is from 6 to 8 inches in thickness. The mine is properly timbered. Stretchers and blankets on hand and rules posted at the mine. Oil used meets the requirements of law.

The superintendent's attention was called to the deficiency in ventilation, with the request that it be remedied.

ALFRED REDDINGTON, Supt.

JOSEPH POWERS, Mine Boss.

No. 136. *Butler Mine.*—This mine was regularly inspected during the year, at which time the ventilation was found to be somewhat deficient, as the system of ventilation was by a seven-foot fan, which is inadequate, owing to the excessive use of powder in blasting the coal. Preparations were being made to install a larger fan. Very little water is generated in the mine. The roof is sandstone and very good, and the mine is prop-

erly timbered. Oil used meets with the requirements of law. Stretchers and blankets are on hand and rules posted at the mine.

ALFRED REDDINGTON, Supt.

JAMES TURNER, Mine Boss.

No. 137. *Monarch or Marmet Mine No. 3*.—This mine was regularly inspected twice during the year, when the conditions in regard to safety and ventilation were found to be good. Drainage moderate. The roof is good and the mine properly timbered. Oil used meets with the requirements of law. Stretchers and blankets on hand, and rules posted at the mine. The management takes pride in keeping this mine in first class condition.

JOHN E. NORVELL, Supt.

R. A. SNEED, Mine Boss.

WINIFREDE COAL COMPANY.

No. 138. *Winifrede Gas Mine*.—This mine was inspected twice during the year, and the conditions in regard to safety and ventilation were found to be fairly good. The mine is practically dry, has an excellent roof and is properly timbered. Oil used meets the requirements of the law.

R. B. CASSADY, Supt.

JOHN GAY, Mine Boss.

No. 139. *South Mine*.—This mine was regularly inspected during the year, when the condition in regard to ventilation was found to be somewhat deficient, owing to the very large development and the great distance that the air has to travel. The roof is slate and in some sections is bad; but the miners are well supplied with timber and the mine is properly timbered. Drainage good. Oil used meets with the requirements of law. Stretchers and blankets are kept on hand and rules posted at the mine.

It is the intention to install an additional fan at this mine in the near future.

R. B. CASSADY, Supt.

JOHN WILLIAMS, Mine Boss.

No. 140. *North Pick Mine*.—This mine was regularly inspected during the year, when the condition in regard to ventilation was found to be somewhat deficient, this being due to the bad condition of mine doors and stoppings. The roof is slate and fairly good, with the exception of some sections, where it is faulty. But the miners are well supplied with timber and the mine is properly timbered. Drainage moderate. Oil used meets the requirements of the law. Stretchers and blankets are kept on hand and rules posted at the mine.

The attention of the Mine Boss was called to the bad condition of mine doors and stoppings, with the request that they be repaired.

R. B. CASSADY, Supt.

ALBERT BRAGG, Mine Boss.

No. 141. *North Machine Mine*.—This mine was regularly inspected during the year, when the condition in regard to safety was found to be good. The mine is practically dry, drainage good. The roof is slate and very good, and the mine is properly timbered. The haulways are kept clear of side obstructions, with sufficient room to pass the cars. Ventilation is deficient in some sections, owing to the bad condition of stoppings. Oil used meets with the requirements of the law, rules are posted, and stretchers and blankets kept on hand.

The attention of the Mine Boss was called to the defective stoppings.

R. B. CASSADY, Supt.

JAMES W. ELLIOTT, Mine Boss.



No. 142. *West Mine*.—This mine was regularly inspected during the year, when the condition in regard to ventilation was found to be fairly good. The roof is slate and good, except in some sections, where the draw slate is from 6 to 8 inches thick, and has to be taken down. The mine is properly timbered, mine doors and stoppings in fair condition and drainage moderate. Oil used meets with the requirements of the law, stretchers and blankets are kept on hand and rules are posted at the mine.

R. B. CASSADY, Supt.

DAVID BRINKLEY, Mine Boss.

#### COALBURG COLLIERY COMPANY.

No. 143. *Ronda Mine*.—This mine was regularly inspected twice during the year, when the condition in regard to ventilation was found to be somewhat deficient, as the present system is by natural means and does not give satisfactory results. The roof is generally of a very uncertain and dangerous nature, and must be carefully timbered to insure safety. The miners are well supplied with timber and, as a rule, the working places are well timbered. Drainage moderate. Oil used meets with the requirements of law, stretchers and blankets are kept on hand and rules posted at the mine.

A new opening has recently been made at this mine and a part of the old mine abandoned, owing to the main haulway being closed by heavy falls of slate.

W. E. NUGEN, Supt.

DAN MORRIS, Mine Boss.

#### STEVENS COAL COMPANY.

No. 144. *Acme Mine*.—This mine was regularly inspected twice during the year, when the conditions in regard to ventilation and drainage were found to be very good. The roof is slate and, with the exception of about 6 inches of draw slate, it is very good in the rooms. The mine is fairly well timbered and the haulways in fair condition, and kept clear of side obstructions, with ample room to pass the cars. Oil used meets with the requirements of law, stretchers and blankets on hand and rules posted at the mine.

E. H. SHONK, Supt.

J. F. WHITE, Mine Boss.

No. 145. *Keystone Mine*.—This mine was regularly inspected during the year, when the condition in regard to the general safety for all entries and rooms was good. This mine has an excellent slate roof and the drainage is good and the mine well timbered.

Owing to the very large development and the great distance the air has to travel, the ventilation is only fair. Oil used meets with the requirements of the law, stretchers are kept on hand and rules posted at the mine.

EDWARD H. SHONK, Supt.

J. W. BRANHAM, Mine Boss.

No. 146. *Empire Mine*.—This mine was regularly inspected twice during the year, when the conditions in regard to safety and ventilation were found to be very good. Drainage, moderate. The roof is slate and good, except in some sections of the mine, where the draw slate is from 3 to 10 inches thick. The miners are well supplied with timber and the mine is properly timbered.

Pick-mining has been recently replaced by electric chain-cutter machines,

which have been installed at this mine and are being operated very successfully. Oil used meets with the requirements of law, stretchers and blankets are on hand, and rules posted at the mine.

EDWARD H. SHONK, Supt.

W. H. MORRIS, Mine Boss.

#### SHAMROCK COAL COMPANY.

No. 147. *Shamrock Mine*.—This mine was opened during the year and operates the No. 2 gas seam, which has a thickness of 5 feet, clean coal. The roof is good, drainage moderate. Ventilation is fair and the general safety of all rooms and entries good. Oil used meets the requirements of law and rules are posted at the mine, and stretchers and blankets kept on hand.

A new tippie and bins are under construction.

THOMAS A. KAY, Supt.

JOHN KAY, Mine Boss.

#### DRY BRANCH COAL COMPANY.

No. 148. *Dry Branch Mine No. 1*.—This mine was regularly inspected during the year, when the condition in regard to safety was found to be good, ventilation fair, and drainage moderate. The roof is very good and the mine properly timbered. Oil used meets with the requirements of law and stretchers and blankets are kept on hand. Rules are posted at the mine.

R. C. LEWIS, Supt.

JAMES LANE, Mine Boss.

No. 149. *Dry Branch Mine No. 2*.—This mine was regularly inspected during the year, when the condition in regard to ventilation was found to be deficient. Drainage moderate. The roof is good and the mine properly timbered. Oil used meets with the requirements of law. Stretchers and blankets are kept on hand and rules posted at the mine.

R. C. LEWIS, Supt.

R. M. ODELL, Mine Boss.

No. 150. *Dry Branch Mine No. 3*.—This mine was regularly inspected during the year, when the condition in regard to ventilation was found to be deficient. Drainage moderate. The roof is slate and good, except some sections where the draw slate is from 6 to 10 inches in thickness, which has to be taken down or carefully timbered. Miners are well supplied with timber and the mine is properly timbered. Oil used meets with the requirements of law. Rules are posted at the mine.

A letter was addressed to the company, calling attention to the deficiency in the ventilation of these mines, with the request that a more adequate system of ventilation be installed.

R. C. LEWIS, Supt.

R. M. ODELL, Mine Boss.

#### BELLECLARE COAL COMPANY.

No. 151. *Belleclare Mine*.—This mine was regularly inspected during the year, when the condition as to general safety of all entries and rooms was found to be good. The mine has an excellent slate roof and is properly timbered; it is practically dry. Ventilation is produced by a temporary furnace, with fair results. Oil used meets with the requirements of the law. Stretchers and blankets on hand and rules posted at the mine.

An electric plant has been installed at this mine during the year, and the coal mined by electric machines with good results.

F. C. PRICHARD, Supt.

W. R. JONES, Mine Boss.

No. 152. *Ruby Mine*.—This mine is located on Cabin Creek and was but recently opened. It operates the No. 5 seam, which has a thickness of from 5 to 6 feet. Operations are on the double entry system and at present ventilation is by natural means, with fairly good results. The roof is slate and generally good. Drainage moderate. Oil used meets with the requirements of law and rules are posted at the mine.

F. C. PRICHARD, Supt.

JOSEPH FILKINS, Mine Boss.

#### CARDIFF COAL COMPANY.

No. 153. *Oakley Mine*.—This mine was regularly inspected twice during the year, when the condition as regards the safety of all rooms and entries was found to be good. Ventilation fair, drainage moderate. Oil used meets with the requirements of law. Stretchers and blankets are kept on hand and rules posted at the mine.

H. C. DUNGAN, Supt.

G. W. COYLE, Mine Boss.

No. 154. *Climax Mine*.—This mine was regularly inspected twice during the year, when the condition in regard to ventilation was found to be somewhat deficient, this being due to the improper construction of the furnace.

This mine is located on Cabin Creek, and operates the No. 2 gas seam of coal, which varies in thickness from 5 to 6 feet. In some sections of the mine there is a middle band of slate from 10 to 12 inches thick. The roof is generally good, drainage moderate. Oil used meets with the requirements of law and rules are posted at the mine.

An electric plant has been installed during the year and the principal part of the coal is mined by electric chain machines, with satisfactory results.

The attention of the superintendent was called to the defective ventilation, with the request that a more adequate system be installed.

H. C. DUNGAN, Supt.

AARON CARVER, Mine Boss.

No. 155. *Horton Mines Nos. 1 & 2*.—These mines are located on Paint branch of Cabin Creek, and operate the Coalburg seam of coal, which has a thickness of 5 feet, with a middle band of slate 10 inches thick. Ventilation is produced by a temporary furnace, which gives very poor results. The roof is generally good, drainage moderate. Oil used meets with the requirements of law, and rules are posted at the mine.

A letter was addressed to the superintendent, calling attention to the defective ventilation, with the request that a more adequate system be adopted.

In addition to the above mines this company has, on the same lease, opened a mine into the Lewiston seam, which has a thickness of 4 feet, with a 4 inch parting of slate. The roof and drainage generally good. At the present time ventilation is by natural means, with fair results.

H. C. DUNGAN, Supt.

WILLIAM ROBERTS, Mine Boss.

#### HOLLY COAL COMPANY.

No. 156. *Holly Mine*.—This mine was regularly inspected twice during the year, when the condition in regard to ventilation was found to be very deficient. This being due to the improper construction of the furnace and neglect to close the break-throughs as the headings advance. The roof is generally good and the drainage only moderate.

Punching machines of the Harrison type, operated by compressed air, have recently been installed at this mine; the power is furnished by an air plant located at the Quarrier Mine. Thus far this system of mining seems to be very satisfactory to the management.

The attention of Mr. M. T. Davis, the general manager, was called to the deficiency in ventilation, and he gave assurance that this would receive his immediate attention.

J. L. DAVIS, Supt.

H. L. FISHER, Mine Boss.

#### QUARRIER COAL COMPANY.

No. 157. *Quarrier Mine*.—This mine was regularly inspected twice during the year, when the condition as regards ventilation was found to be deficient, as they depend on natural means, which do not give very satisfactory results. The mine is practically dry and has an excellent roof, and the general safety of all entries and rooms is good. Oil used meets with the requirements of law and rules are posted at the mine.

A compressed air plant has recently been installed at this mine, and all coal is mined by punching machines of the Harrison type, which up to this time have proven very satisfactory to the management.

The attention of Mr. M. T. Davis, the general manager, was called to the deficiency in ventilation, with the request that some mechanical system of ventilation be installed.

A. P. SHEARER, Supt.

FRANK SHEARER, Mine Boss.

#### RED WARRIOR COAL COMPANY.

No. 158. *Red Warrior Mine*.—This mine was regularly inspected during the year. At the time of last inspection, the ventilation was found to be somewhat deficient. The present system is by means of a temporary furnace, the firing of which has not received proper attention. Roof and drainage generally good. The mine is properly timbered. Oil used meets with the requirements of law and rules are posted at the mine.

During the year but few men have been employed at this mine.

The attention of the Mine Boss was called to the deficiency in ventilation, with the request that the furnace be given proper attention.

C. H. MEAD, Supt.

C. L. PETTY, Mine Boss.

#### CHEROKEE COAL COMPANY.

No. 159. *Cherokee Mine*.—This mine was regularly inspected twice during the year. At the time of last inspection the condition in regard to ventilation was found to be very good, as a fan had recently been installed, with good results. The roof is good, except that in some sections there is a draw slate, which has to be taken down. Drainage moderate.

During the year an electric plant has been installed at this mine, and coal is mined by machines, with satisfactory results.

Oil used meets with the requirements of law and rules are posted at the mine.

JOHN GILMOUR, Supt.

W. H. DOWER, Mine Boss.

#### WAKE FOREST MINING COMPANY.

No. 160. *Wake Forest Mine*.—This mine was regularly inspected twice during the year, and at the time of the last inspection the condition in regard to ventilation was found to be fairly good, as a fan had recently

been installed, which was operated by a gasoline engine, which has not given entire satisfaction. The general safety of all entries and rooms was found to be good. Drainage moderate. Oil used meets with the requirements of law. Stretchers on hand and rules posted at the mines.

Preparations were being made to install electric mining machines and an electric motor for operating the fan. Power will be furnished by a plant located at Climax Mine.

T. A. BARTLAM, Supt.

RICHARD COBB, Mine Boss.

*LEEWOOD COLLIERY COMPANY.*

No. 161. *Leewood Mine No. 1.*—This mine has been idle for several months past, and for this reason only one inspection was made during the year, at which time the condition in regard to general safety of all entries and rooms was good, and ventilation sufficient for the number of men employed. Drainage moderate. It is uncertain when this mine will resume operation.

H. C. DUNGAN, Supt.

CHARLES WHITNEY, Mine Boss.

No. 162. *Leewood Mine No. 2.*—This mine has been idle for several months past, and for this reason only one inspection has been made during the year, at which time the condition in regard to ventilation was found to be very deficient, which was due to the irregular development of the mine and having no mechanical system of ventilation. In other respects the conditions were generally good.

There is no certainty as to when this mine will resume operations, as it has been placed in the hands of a receiver.

H. C. DUNGAN, Supt.

HERMAN COHEN, Mine Boss.

*M. T. DAVIS COAL COMPANY.*

No. 163. *Davis Mine.*—This mine, located on Cabin Creek, was opened during the year and operates the Lewiston seam of coal, which has a thickness of 4 feet, 8 inches of coal. The roof is good, drainage moderate, and general safety of all rooms and entries good. Ventilation is produced by temporary furnaces, with fair results. Oil used meets the requirements of law. Rules are posted at the mine.

An electric plant has recently been installed, and all coal is mined by electric machines, with good results.

M. W. MURPHY, Supt.

ROBERT THOMPSON, Mine Boss.

*CALEDONIAN COAL & COKE COMPANY.*

No. 164. *Caledonian Mine.*—This mine is located on Cabin Creek, twelve miles from Coalburg Station, and was recently opened. It operates the No. 2 gas seam, which has a thickness of 5 feet. The roof is good; drainage moderate; general safety of all entries and rooms good. There are three openings to the mine, each of which is ventilated by a temporary furnace, with good results. At the present time power for operating the machines is furnished by the plant located at Cherokee Mine. Oil used meets with the requirements of law and rules are posted at the mine.

An electric plant is nearing completion, and preparations are being made to construct an up-to-date tippie.

J. C. GILMOUR, Supt.

H. B. LANTER, Mine Boss.

*THISTLE COAL COMPANY.*

No. 165. *Thistle Mine*.—This mine was regularly inspected during the year, when the condition in regard to ventilation was found to be fair. The roof is good; drainage moderate; and the general safety of all entries and rooms is good. Oil used meets with the requirements of law and rules are posted at the mine. All coal is mined by electric mining machines.

THOMAS A. KAY, Supt.

JOHN EASTHAM, Mine Boss.

*THE PEERLESS GAS COAL COMPANY.*

No. 166. *Peerless Mine*.—This mine was regularly inspected during the year, when the condition in regard to ventilation was found to be good. The mine is practically dry and the general safety of all rooms and entries good. Oil used meets with the requirements of law. Rules are posted at the mine.

This mine operates the Peerless seam of coal, which has a thickness of  $3\frac{1}{2}$  feet. As yet the capacity of this mine is small and but few men are employed here.

W. H. VANDEN, Supt.

HENRY VIORES, Mine Boss.

*LA MONT MINING COMPANY.*

No. 167. *LaMont Mine No. 1*.—This mine is located on Kane Fork of Cabin Creek, ten miles from Coalburg Station, and operates the No. 1 gas seam of coal, which varies in thickness from  $3\frac{1}{2}$  to 4 feet of clean coal. One inspection was made at this mine, when the condition in regard to ventilation was found to be good. The mine is practically dry and general safety of all entries and rooms good. Oil used meets the requirements of law, stretchers and blankets are kept on hand, and rules posted at the mine.

An electric plant and mining machines have been recently installed and have proven very satisfactory to the management.

PAUL L. JAMES, Supt.

EDWARD FLEEMAN, Mine Boss.

No. 168. *LaMont Mine, No. 2*.—This is a new mine and is operated in connection with LaMont Mine No. 1, and operates the No. 1 gas seam of coal, which varies in thickness from  $3\frac{1}{2}$  to 4 feet of clean coal. One inspection was made, when the condition in regard to general safety of all entries and rooms was found to be good. The mine is practically dry, has an excellent roof and is well timbered. Ventilation is obtained by a furnace, which gives good results. Oil used meets with the requirements of law, stretchers are kept on hand, and rules posted at the mine.

PAUL L. JAMES, Supt.

EDWARD FLEEMAN, Mine Boss.

*THE CARBON COAL COMPANY.*

No. 169. *South Carbon Mine*.—This mine was regularly inspected twice during the year, when the condition in regard to ventilation was found to be good. The mine is practically dry, has an excellent roof and is properly timbered, and general safety of all entries and rooms is good. Oil used meets with the requirements of law, rules are posted at the mine, stretchers and blankets kept on hand.

There are eight distinct openings at this mine; seven fans are installed which produce an excellent system of ventilation.

been installed, which was operated by a gasoline engine, which has not given entire satisfaction. The general safety of all entries and rooms was found to be good. Drainage moderate. Oil used meets with the requirements of law. Stretchers on hand and rules posted at the mines.

Preparations were being made to install electric mining machines and an electric motor for operating the fan. Power will be furnished by a plant located at Climax Mine.

T. A. BARTLAM, Supt.

RICHARD COBB, Mine Boss.

#### LEEWOOD COLLIERY COMPANY.

No. 161. *Leewood Mine No. 1.*—This mine has been idle for several months past, and for this reason only one inspection was made during the year, at which time the condition in regard to general safety of all entries and rooms was good, and ventilation sufficient for the number of men employed. Drainage moderate. It is uncertain when this mine will resume operation.

H. C. DUNGAN, Supt.

CHARLES WHITNEY, Mine Boss.

No. 162. *Leewood Mine No. 2.*—This mine has been idle for several months past, and for this reason only one inspection has been made during the year, at which time the condition in regard to ventilation was found to be very deficient, which was due to the irregular development of the mine and having no mechanical system of ventilation. In other respects the conditions were generally good.

There is no certainty as to when this mine will resume operations, as it has been placed in the hands of a receiver.

H. C. DUNGAN, Supt.

HERMAN COHEN, Mine Boss.

#### M. T. DAVIS COAL COMPANY.

No. 163. *Davis Mine.*—This mine, located on Cabin Creek, was opened during the year and operates the Lewiston seam of coal, which has a thickness of 4 feet, 8 inches of coal. The roof is good, drainage moderate, and general safety of all rooms and entries good. Ventilation is produced by temporary furnaces, with fair results. Oil used meets the requirements of law. Rules are posted at the mine.

An electric plant has recently been installed, and all coal is mined by electric machines, with good results.

M. W. MURPHY, Supt.

ROBERT THOMPSON, Mine Boss.

#### CALEDONIAN COAL & COKE COMPANY.

No. 164. *Caledonian Mine.*—This mine is located on Cabin Creek, twelve miles from Coalburg Station, and was recently opened. It operates the No. 2 gas seam, which has a thickness of 5 feet. The roof is good; drainage moderate; general safety of all entries and rooms good. There are three openings to the mine, each of which is ventilated by a temporary furnace, with good results. At the present time power for operating the machines is furnished by the plant located at Cherokee Mine. Oil used meets with the requirements of law and rules are posted at the mine.

An electric plant is nearing completion, and preparations are being made to construct an up-to-date tippie.

J. C. GILMOUR, Supt.

H. B. LANTER, Mine Boss.

*THISTLE COAL COMPANY.*

No. 165. *Thistle Mine*.—This mine was regularly inspected during the year, when the condition in regard to ventilation was found to be fair. The roof is good; drainage moderate; and the general safety of all entries and rooms is good. Oil used meets with the requirements of law and rules are posted at the mine. All coal is mined by electric mining machines.

THOMAS A. KAY, Supt.

JOHN EASTHAM, Mine Boss.

*THE PEERLESS GAS COAL COMPANY.*

No. 166. *Peerless Mine*.—This mine was regularly inspected during the year, when the condition in regard to ventilation was found to be good. The mine is practically dry and the general safety of all rooms and entries good. Oil used meets with the requirements of law. Rules are posted at the mine.

This mine operates the Peerless seam of coal, which has a thickness of  $3\frac{1}{2}$  feet. As yet the capacity of this mine is small and but few men are employed here.

W. H. VANDEN, Supt.

HENRY VIORES, Mine Boss.

*LA MONT MINING COMPANY.*

No. 167. *LaMont Mine No. 1*.—This mine is located on Kane Fork of Cabin Creek, ten miles from Coalburg Station, and operates the No. 1 gas seam of coal, which varies in thickness from  $3\frac{1}{2}$  to 4 feet of clean coal. One inspection was made at this mine, when the condition in regard to ventilation was found to be good. The mine is practically dry and general safety of all entries and rooms good. Oil used meets the requirements of law, stretchers and blankets are kept on hand, and rules posted at the mine.

An electric plant and mining machines have been recently installed and have proven very satisfactory to the management.

PAUL L. JAMES, Supt.

EDWARD FLEEMAN, Mine Boss.

No. 168. *LaMont Mine, No. 2*.—This is a new mine and is operated in connection with LaMont Mine No. 1, and operates the No. 1 gas seam of coal, which varies in thickness from  $3\frac{1}{2}$  to 4 feet of clean coal. One inspection was made, when the condition in regard to general safety of all entries and rooms was found to be good. The mine is practically dry, has an excellent roof and is well timbered. Ventilation is obtained by a furnace, which gives good results. Oil used meets with the requirements of law, stretchers are kept on hand, and rules posted at the mine.

PAUL L. JAMES, Supt.

EDWARD FLEEMAN, Mine Boss.

*THE CARBON COAL COMPANY.*

No. 169. *South Carbon Mine*.—This mine was regularly inspected twice during the year, when the condition in regard to ventilation was found to be good. The mine is practically dry, has an excellent roof and is properly timbered, and general safety of all entries and rooms is good. Oil used meets with the requirements of law, rules are posted at the mine, stretchers and blankets kept on hand.

There are eight distinct openings at this mine; seven fans are installed which produce an excellent system of ventilation.



Electric chain-cutter machines are operated very successfully at this mine.

FRANK HOMAN, Supt.

LEE JENKINS, Mine Boss.

No. 170. *North Carbon Mine*.—This mine was regularly inspected once during the year, at which time the general safety of all entries and rooms was found to be good. A fan had recently been installed and furnishes excellent ventilation in the mine. Electric power for operating the fan is furnished by the plant located at South Carbon Mine. The mine is practically dry, and well timbered. Oil used meets with the requirements of law and rules are posted at the mine.

K. D. QUARRIER, Supt.

J. T. BALDWIN, Mine Boss.

#### REPUBLIC COAL COMPANY.

No. 171. *Republic West Mine*.—This mine was inspected once during the year, when the condition in regard to ventilation was found to be very good. The roof is good and the mine is properly timbered; drainage moderate; general safety of all entries and rooms good. The haulways are kept in first class condition, with ample room for the workmen to pass the cars. Oil used meets with the requirements of law. Rules are posted at the mine.

During the year an electric plant and fan were installed at this mine, and practically all of the coal is mined by electric chain-cutter machines, which system of mining proves to be very satisfactory.

The No. 2 gas seam of coal is operated, which varies in thickness from  $4\frac{1}{2}$  to 6 feet of clean coal.

FRANK HOMAN, Supt.

OWEN MEADOWS, Mine Boss.

#### WEST VIRGINIA COLLIERY COMPANY.

No. 172. *Mine No. 1*.—This mine was regularly inspected twice during the year, when the condition in regard to safety of all entries and rooms was found to be good. The mine is practically dry, has an excellent roof and is well timbered. The main haulways are in first class condition and furnish ample room for the workmen to pass the cars. A ten-foot Stine fan has recently been installed, which gives a good system of ventilation. The principal part of the coal is mined by electric mining machines. Oil used meets with the requirements of law. Stretchers and blankets are kept on hand and rules posted at the mine.

JOHN HOLMES, Supt.

GEORGE BUCKLEY, Mine Boss.

No. 173. *Mine No. 2*.—This mine is located on the Fifteen-Mile branch of Cabin Creek, eighteen miles from Coalburg Station, and on the Cabin Creek branch of the C. & O. Railroad. The No. 2 gas seam of coal is operated, which has a thickness of 5 feet of clean coal. The roof is good; drainage moderate; general safety of all entries and rooms good. Ventilation is by natural means, and under the existing conditions is fairly good. It is the intention to install a fan at this mine in the near future and preparations are being made to mine the coal by electric mining machines. Oil used meets with the requirements of law. Rules are posted at the mine.

JOHN HOLMES, Supt.

D. F. WORKMAN, Mine Boss.

*RACCOON FORK COAL COMPANY.*

No. 174. *Raccoon Mine*.—This mine was regularly inspected twice during the year, when the general safety of all entries and rooms was found to be good. During the year a ten-foot Thayer fan was installed, which gives a good system of ventilation. The mine has an excellent roof and is properly timbered. Drainage good. The haulways are in first class condition, with ample room for the workmen to pass the cars.

Electric chain-cutter machines are successfully operated at this mine. Oil used meets with the requirements of law. Stretchers and blankets are kept on hand and rules posted at the mine.

THOMAS A. KAY, Supt.

HUGH VAUGHAN, Mine Boss.

*UNITED COLLIERY COMPANY.*

No. 175. *United Gas Mine*.—This mine was regularly inspected twice during the year, when the condition in regard to the general safety of all entries and rooms was found to be good. Recently a seven-foot Thayer fan was installed, which gives very satisfactory results. The mine is properly timbered, haulways in good condition, drainage moderate. Oil used meets with the requirements of the law, stretchers and blankets kept on hand, and rules posted at the mine.

During the year an electric plant was installed at this mine, and chain-cutter machines put in operation.

F. N. MOORE, Supt.

D. S. HOLMES, Mine Boss.

*CABIN CREEK MINING COMPANY.*

No. 176. *Kayford Mine No. 1*.—This mine was regularly inspected twice during the year, when the condition in regard to the general safety of all entries and rooms was found to be good. This mine has an excellent roof and the haulways are kept in first class condition, with sufficient room for the workmen to pass the cars at all points. The mine is practically dry and properly ventilated, as the management takes pride in keeping this mine in first class condition. Oil used meets with the requirements of law, stretchers and blankets are kept on hand and rules posted at the mine.

THOMAS A. KAY, Supt.

GEORGE EASTHAM, Mine Boss.

No. 177. *Kayford Mine No. 2*.—This mine was regularly inspected during the year, when the conditions in regard to safety and ventilation were found to be good. The mine has an excellent roof and the haulways are kept in good condition. Drainage generally good. Oil used meets the requirements of law. Stretchers and blankets are kept on hand and rules posted at the mine. The coal at these mines is mined by electric chain-cutter machines exclusively—conditions being very favorable to this system of mining.

THOMAS A. KAY, Supt.

GEORGE EASTHAM, Mine Boss.

*PINE GROVE COAL COMPANY.*

No. 178. *Pine Grove Mine*.—This mine was regularly inspected twice during the year, when the condition in regard to ventilation was found to be somewhat deficient, as they depend on natural means for ventilation. The roof is good and the mine properly timbered. Drainage only

moderate. The capacity of this mine is small and but few men are employed at any time. Oil used meets the requirements of the law and rules are posted at the mine.

JOHN PEACOCK, Supt.

JOHN PEACOCK, Mine Boss.

*ROBINSON COAL COMPANY.*

No. 179. *Klondike or Robinson Mine.*—As this mine was idle a portion of the year, only one inspection was made, at which time the condition in regard to ventilation was found to be only fair. Drainage moderate. The roof is very good and the mine well timbered. Ventilation is produced by a temporary furnace, with fair results, as there were but few men employed in this mine at this time. Oil used meets with the requirements of law and rules are posted at the mine.

A. M. WOOLDRIDGE, Supt.

JAMES MURRAY, Mine Boss.

No. 180. *Robinson Mine No. 5.*—As this mine was idle a portion of the year only one inspection was made, at which time the condition in regard to ventilation was found to be fairly good, the roof generally good, and the mine properly timbered. The mine generates but little water; drainage fair. Oil used meets the requirements of law. Stretchers and blankets are kept on hand and rules posted at the mine. During the year the old tippie at the river was replaced by a new one.

A. M. WOOLDRIDGE, Supt.

JAMES MURRAY, Mine Boss.

*SHENANDOAH COAL AND COKE COMPANY.*

No. 181. *Shenandoah Mine.*—This mine was regularly inspected twice during the year, at which time the condition in regard to ventilation was found to be deficient, this being due to the main air way being practically closed by heavy falls of slate. In the sections of the mine now being operated the roof is generally good and is properly timbered. The mine is practically dry. Oil used meets with the requirements of the law. Rules are posted at the mine.

During the year a second opening was made and put in passable condition.

HENRY STEPHENSON, Supt.

HENRY STEPHENSON, Mine Boss.

*BELMONT COAL COMPANY.*

No. 182. *Belmont Mine.*—As this mine was idle the latter part of the year only one inspection was made, when the condition in regard to ventilation was found to be somewhat deficient, this being due to defective condition of mine doors and stoppings. The roof is generally good and the mine fairly well timbered. Haulways are in fair condition, with ample passing room. There is very little water to contend with in this mine. Drainage fairly good. Oil used meets with the requirements of law. Stretchers and blankets are kept on hand and rules posted at the mine.

The attention of the Mine Boss was called to the condition of the mine doors and stoppings, with instruction to have the same repaired and kept in good condition.

J. C. MORRISON, Supt.

HARRY W. SCOTT, Mine Boss.

No. 183. *Klondike Mine.*—As this mine was idle the latter part of the year only one inspection was made, at which time the condition in regard

to ventilation was found generally good. The roof is slate and only fairly good, especially on the entries, where it requires careful attention to keep it in safe condition. The miners are well supplied with timber and the mine is properly timbered. Drainage good. Oil used meets with the requirements of law. Rules are posted and stretchers kept on hand.

J. C. MORRISON, Supt.

HARRY W. SCOTT, Mine Boss.

#### EQUITABLE COAL COMPANY.

No. 184. *Coalburg Mine*.—This mine was regularly inspected twice during the year, when the condition in regard to general safety of all entries and rooms was found to be good. The mine is practically dry. The roof is generally good and properly timbered, and haulways in good condition, with ample passing room. Oil used meets with the requirements of law. Rules are posted at the mine. A seven-foot Thayer fan was recently installed at this mine, which gives a very satisfactory system of ventilation.

J. M. ROAN, JR., Supt.

C. T. SLACK, Mine Boss.

No. 185. *Kanawha Mine*.—This mine was regularly inspected twice during the year, when the condition in regard to ventilation was found to be fairly good. The roof is good and the mine properly timbered. There is very little water to contend with, drainage moderate. Oil used meets with legal requirements. Rules are posted at the mine and stretchers and blankets kept on hand.

During the year a new and up-to-date tipple has been constructed at the river, giving the company additional shipping facilities, as formerly shipment was confined to the railroad.

J. M. ROAN, JR., Supt.

C. T. SLACK, Mine Boss.

#### PAWNEE COAL COMPANY.

No. 186. *Lewiston (Black Cat) Mine*.—This mine was idle several months during the year and for this reason but one inspection was made, at which time the condition in regard to ventilation was found to be somewhat deficient, which was due to the return air-way being practically closed by heavy falls of slate. Preparations were being made to place the mine in better condition. The roof is good and the mine fairly well timbered. Drainage moderate. A second opening has been made as required by law. Oil used meets with the legal requirements and rules are posted at the mine.

W. E. DIAL, Supt.

D. H. HUDNALL, Mine Boss.

No. 187. *Coalburg (Black Cat) Mine*.—This mine was idle several months during the year and for this reason but one inspection was made, at which time the condition as regards ventilation was found to be deficient, this being due to the return air-way being greatly obstructed by heavy falls of slate. The roof is of a very uncertain nature and must be properly timbered to insure safety, which has been neglected to some extent in the past. A considerable quantity of water is generated in the mine and drainage is bad along the haulway. Oil used meets with the requirements of law, stretchers and blankets are kept on hand and rules posted at the mine.

During the year an electric plant was installed at this mine.

W. E. DIAL, Supt.

D. H. HUDNALL, Mine Boss.

*SCRANTON SPLINT COAL COMPANY.*

No. 188. *Scranton Mine.*—This mine was regularly inspected twice during the year, when the condition in regard to the general safety of all entries and rooms was found to be good. The roof is good and the mine properly timbered; drainage moderate. The haulways are in first class condition, with ample room for the workmen to pass the cars. Ventilation is generally good throughout the mine.

Practically all of the coal is mined by electric chain-cutter machines, as conditions are very favorable to this method of mining.

Oil used meets with the requirements of law; stretchers and blankets are on hand and rules posted at the mine. This company endeavors to keep the mine in first class condition and, as a rule, complies with the mining law of the State.

W. W. MUCKLOW, Supt.

JOHN J. COX, Mine Boss.

*PAINT CREEK COAL COMPANY.*

No. 189. *Paint Creek Mine.*—This mine was regularly inspected twice during the year, when the condition in regard to ventilation was found to be generally good. In some parts of the mine the roof is very good, while in other sections the draw slate varies in thickness from 12 to 24 inches and is a source of great annoyance and expense, as it must be taken down or carefully propped to insure safety. The miners are well supplied with timber and the mine is properly timbered throughout. Drainage generally good, and the haulways kept in safe condition. Oil used meets with the requirements of law. Stretchers and blankets are kept on hand and rules posted at the mine.

W. W. MUCKLOW, Supt.

J. R. MUCKLOW, Mine Boss.

*STANDARD SPLINT AND GAS COAL COMPANY.*

No. 190. *Standard Mine.*—This mine was regularly inspected twice during the year, at which times the condition in regard to ventilation was found to be fairly good, the present system being by temporary furnaces, but it is the intention to install a fan in the near future. The roof is generally good and the mine properly timbered. Haulways are kept in good condition. Drainage moderate. Oil used meets with the requirements of the law. Stretchers and blankets are kept on hand and rules are posted at the mine.

During the year an electric plant and mining machines were installed at this mine.

J. A. STRAUGHAN, Supt.

EDWARD FOSTER, Mine Boss.

*GROSE COLLIERY COMPANY.*

No. 191. *Grose Mine.*—This mine was regularly inspected once during the year, at which time ventilation was found to be somewhat deficient, as the present system is by means of temporary furnaces and, instead of wooden doors, canvas cloth is used for directing the air currents. These canvas doors have proven very unsatisfactory. The superintendent's attention was called to the deficiency, with the request that the use of canvas be discontinued and wooden doors be constructed. Roof generally

good and mine properly timbered. Drainage fair. Oil used meets with the requirements of law and rules are posted at the mine.

T. C. McVEY, Supt.

J. C. GRISSINGER, Mine Boss.

#### IMPERIAL COLLIERY COMPANY.

No. 192. *Imperial Mine No. 1.*—This mine was regularly inspected twice during the year, at which time the condition in regard to ventilation was found to be very good on all of the headings, but deficient in some of the rooms, this being due to neglect in having break-throughs made between rooms at the proper distance. The attention of the Mine Boss was called to this matter, with the request that he comply with the mining law. The roof of this mine is not good, the draw slate varying in thickness from 8 to 14 inches and giving considerable trouble and expense, but the miners are well supplied with timber and the mine is well timbered. Drainage only moderate. The company has recently installed a compressed air plant and the electric chain-cutter machines have been replaced by punching machines. Owing to the bad condition of the roof this system of mining is found more profitable. Oil used meets with the requirements of law. Rules are posted at the mine and stretchers and blankets kept on hand.

LEE LONG, Supt.

THOMAS SEACRIST, Mine Boss.

No. 193. *Imperial Mine No. 2.*—This mine, opened during the year, is located on Paint Creek fourteen miles from Paint Creek Junction, and operates the No. 2 gas seam of coal, which has a thickness of  $3\frac{1}{2}$  to 4 feet of clean coal. From 10 to 12 inches of draw slate is taken down, leaving an excellent roof, and the mine is properly timbered. Drainage only moderate. A fan has recently been installed and the ventilation is generally good. Haulways in good condition with sufficient room for the workmen to pass the cars. Electric mining machines are used at this mine, power being furnished by a plant located at Imperial Mine No. 1. Oil used meets with the requirements of law and rules are posted at the mine.

LEE LONG, Supt.

W. A. OTEY, Mine Boss.

#### GREENBRIER COAL COMPANY.

No. 39. *Eagle Mine No. 1.*—No inspection was made of this mine as it has been temporarily abandoned during the year. The company is undecided as to when operations will be resumed at this mine.

A. C. MASTERS, Supt.

No. 195. *Greenbrier Mine.*—This mine was regularly inspected twice during the year when the condition in regard to safety of all entries and rooms was found to be good. The roof is very good and the mine properly timbered. Drainage moderate. Ventilation is produced by a temporary furnace which is giving only fair results. A more adequate system of ventilation will be installed in the near future. Oil used meets the requirements of the law. Rules are posted at the mine.

In addition to the above mine, this company has recently opened a new mine on the same lease, which operates the Winifrede seam of coal which has a thickness of  $6\frac{1}{2}$  feet, with a parting of slate 4 inches thick. This mine is operated in connection with Greenbrier mine, the product of both mines being loaded from the same tippie. Ventilation is by natural causes with fair results—sufficient for the present development. The roof is generally good; drainage moderate. Oil meets with the requirements of law. Rules are posted at the mine.

A. C. MASTERS, Supt.

W. H. VAUGHAN, Mine Boss.

No. 196. Masters mine was acquired by this company but was never worked.

#### WACOMAH COAL AND COKE COMPANY.

No. 197. *Wacomah Mine*.—This mine is located on Paint Creek, four miles from Paint Creek Junction. This mine was opened during the present year and operates the Coalburg seam of coal, which has a thickness of from 5 to 6 feet. The roof is fairly good and the mine properly timbered. Drainage moderate. At the time of inspection, there were three distinct openings at this mine, each of which was ventilated by a temporary furnace. It is the intention of the Company to install a fan as soon as these openings are connected. Oil used meets with the requirements of law and rules are posted at the mine.

E. G. SIMS, Supt.

EDWARD HOPE, Mine Boss.

#### DETROIT AND KANAWHA COAL COMPANY.

No. 198. *Detroit Mine*.—This mine, opened during the year, is located on Paint Creek, and operates the seam of coal known as Eagle No. 1, which has a thickness of from 3 to  $4\frac{1}{2}$  feet. The roof is good, drainage moderate, and general safety of all entries and rooms is good. The present system of ventilation is by a temporary furnace which is sufficient as at this time the development is small. Oil used meets the requirements and rules are posted at the mine.

This Company has a force of men at work opening the No. 2 Gas Seam of coal, which is to be operated in connection with the Detroit Mine.

JOHN E. MINER, Supt.

FLOYD DILLON, Mine Boss.

#### MORTON COAL COMPANY.

No. 199. *Morton Mine*.—This mine is located on Paint Creek and was opened during the present year. It operates the No. 1, or Eagle seam of coal, which varies in thickness from 3 to 4 feet of clean coal. There are five openings to this mine which are ventilated by temporary furnaces; the ventilation was found to be very good on all of the headings but deficient in some of the rooms, this being due to neglect in having break-throughs made between the rooms at proper distances. The attention of the Mine Boss was called to this matter with the request that break-throughs be made as required by law. The roof is generally good and the mine properly timbered. Drainage moderate. Oil used meets with the requirements of law and rules are posted at the mine.

QUINN MORTON, Supt.

PETER WOLF, Mine Boss.

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**NUCKOLLS COAL COMPANY.**

No. 200. *Nuckolls Mine*.—This mine was opened during the present year and is located on Paint Creek. It operates the No. 2 Gas Seam of coal, which has a thickness of  $4\frac{1}{2}$  feet of clean coal, with the exception of opening No. 1, where there is a middle band of slate from 4 to 8 inches thick. The roof is good; the mine is practically dry; general safety of all entries and rooms good. There are four distinct openings, each of which is ventilated by a temporary furnace with fair results. Oil used meets with the requirement of law. Rules are posted at the mine.

A. D. HARRAH, Supt.

C. C. COMER, Mine Boss.

**THE CHESAPEAKE MINING COMPANY.**

No. 201. *Chesapeake Mine*.—This mine was regularly inspected twice during the year, at which times the ventilation was found to be somewhat deficient, which was due to the bad condition of mine doors and stoppings. The roof is generally good with the exception of the No. 5 opening where there is a draw slate that varies in thickness from 4 to 12 inches, which has to be taken down or carefully timbered. The miners are well supplied with timber and the mine is properly timbered. Drainage moderate. Owing to the bad roof in some sections of the mine the haulways are obstructed to some extent thus making it difficult in some places for workmen to pass the cars. Oil used meets with the requirements of law, stretchers and blankets are kept on hand and rules posted at the mine.

J. B. LEWIS, Supt.

ALEXANDER THOMPSON, Mine Boss.

**MONTGOMERY COAL COMPANY.**

No. 202. *Kanawha Mine*.—This mine was regularly inspected twice during the year when the condition in regard to ventilation was found to be deficient, as the present system is by natural means and does not give satisfactory results. The roof is good, drainage moderate, haulways in good condition with ample room for workmen to pass the cars. The mine is properly timbered and oil used meets the requirements of law. Rules are posted at the mine, and stretchers and blankets are kept on hand. The mine boss gave assurance that a fan would be installed at this mine in the near future.

S. H. MONTGOMERY, Supt.

S. P. JOHNSON, Mine Boss.

**KANAWHA AND COAL RIVER COAL COMPANY.**

No. 203. *Black Band Mine No. 1*.—This mine was regularly inspected twice during the year when the condition in regard to the general safety of all entries and rooms was found to be good. The mine is properly ventilated, has an excellent roof and is well timbered. Drainage moderate. Oil used meets with the requirements of the law. Rules are posted at the mine and stretchers and blankets kept on hand.

ARTHUR MITCHELL, Supt.

CHARLES SNODGRASS, Mine Boss.

No. 204. *Black Band Mine No. 2*.—This mine was inspected twice during the year when the condition in regard to the general safety of all



entries and rooms was found to be good. Ventilation was found to be deficient which was due to defective mine doors. The roof is good and the mine properly timbered. Drainage moderate. This mine is operated in connection with Black Band Mine No. 1.

ARTHUR MITCHELL and JOHN HALL, Supts.

EDWARD SANDFORD and CHAS. McCANN, Mine Bosses.

No. 205. *Black Band Mine No. 3.*—This mine was regularly inspected once during the year when the condition in regard to ventilation was found to be only moderate; ventilation was produced by a temporary furnace. The roof is good and the mine is properly timbered. Drainage only fair. Oil used meets with the requirements of the law. Rules posted at the mine. Preparations were being made to operate this mine on the long wall system.

ARTHUR MITCHELL and JOHN HALL, Supts.

DAVID MITCHELL and JAMES LEAVANS, Mine Bosses.

No. 206. *Carkin Mine.*—This mine has been idle for several months past and for this reason but one inspection was made, at which time the condition in regard to ventilation was found to be very good. The roof is good with the exception of a draw slate from 4 to 8 inches thick that has to be taken down. The mine is properly timbered. Drainage only moderate.

I have no information as to when this mine will resume operation.

ARTHUR MITCHELL, Supt.

DAVID MITCHELL and JAMES LEAVANS, Mine Bosses.

#### WEST VIRGINIA PEERLESS COAL COMPANY.

No. 207. *McConihay or Peerless Mine.*—This mine was idle the greater portion of the year and for this reason but one inspection was made, at which time the condition in regard to ventilation was found to be only moderate. General safety of entries and rooms was found to be good. Drainage fair. The mine is properly timbered. This is a very small development and few men are employed at any time. As yet, no rules are posted; neither are stretchers nor blankets kept on hand.

DR. GEORGE HENDERSON and C. H. HARDY, Supts.

JAMES CLARK and WM. CLENDENIN, Mine Bosses.

#### HUGHES CREEK COAL COMPANY.

No. 208. *Hugheston Mine.*—This is a new mine located on the main line of the K. & M. railroad, twenty-three miles from Charleston, and operates the Coalburg seam of coal, which has a thickness of 5 feet. There are three openings to this mine and the present system of ventilation is by natural causes with fair results. There is a draw slate 12 inches in thickness which has to be taken down, but which leaves a very good roof, and the mine is properly timbered. Drainage only moderate. Oil meets with the requirements of law and rules are posted at the mine.

JOHN W. MOORE, Supt.

JOHN NUGENT, Mine Boss.

#### BANNER COAL COMPANY.

No. 209. *Banner Mine.*—This is a new mine located on Paint Creek, four and a half miles from Paint Creek Junction; it was opened during

the year and operates the Coalburg Seam of coal which has a thickness of 6 feet, and is developed on the double entry system. The roof is good, drainage moderate. As the shipment of coal from this mine was but recently begun, no mechanical system of ventilation has been installed. Ventilation is by natural means and with satisfactory results. Oil used meets with the requirements of law and rules are posted at the mine.

W. W. MUCKLOW, Supt.

DAN WATERS, Mine Boss.

**KANAWHA BLOCK COAL COMPANY.**

No. 210. *Kanawha Block Mine.*—This mine will be opened by the Kanawha Block Coal Company, eleven and one-half miles from Charleston, on the main line of the K. & M. railroad, but as yet operations have not commenced.

**PERSINGER COAL COMPANY.**

No. 211. *Persinger Mine.*—This is a new mine being opened on Cabin Creek, six miles from Coalburg Station. At present openings are being made, a tipple is being constructed and other improvements under way.

**WITCHER COAL COMPANY.**

No. 212. *Witcher Mine.*—This is a new mine located at Witcher on the main line of the K. & M. railroad thirteen miles from Charleston. The Peerless Seam is operated which has a thickness of from thirty to thirty-six inches. The mine is practically dry; the roof is good. Ventilation is by natural causes with satisfactory results. Operations at this mine have been delayed for some time because of a difficulty in securing the right to cross the railroad. Shipment of coal will be made by river, as no preparations have been made to ship by rail.

**MORRIS CREEK COAL COMPANY.**

No. 213. *Morris Creek Mine.*—This mine is located on Morris Creek, a tributary of the Great Kanawha River and on a branch line of the C. & O. R. R. The developments are in the Winifrede or Kanawha seam which varies in thickness from four to five feet, including an irregular band of slate and also a band of black rock. The roof is principally sand rock and good. The ventilation natural and only moderate. The mine as yet is free from water; the requirements of the mining laws are apparently observed in a proper and regular manner; the oils sold by the company for illuminating purposes inside of the mine are apparently as required by law. Stretchers, blankets, &c., are kept on hand. Three regular inspections were made of this mine during the year and reports were properly filled out in regard to existing conditions at those times and forwarded to the office of the Chief Inspector. No map has yet been furnished the Inspector.

WM. TODD, Gen. Mgr.                      JOHN FILBIN, Mine Boss.

**LINCOLN COUNTY.**

**ROCHESTER COAL COMPANY.**

No. 214. *Rochester Mine.*—This mine was idle for a portion of the year, and for this reason but one inspection was made, at which time the condition in regard to ventilation was found to be fairly good, the present

system being by means of a furnace which gives fair results as there are but few men employed in this mine. The roof is generally good and the mine properly timbered; drainage moderate. Oil used meets with the requirements of law and rules are posted at the mine.

P. H. GRELLLE, Supt.

C. C. VAUGHAN, Mine Boss.

#### LINCOLN COAL COMPANY.

No. 215. *Lincoln Mine*.—This mine was idle for a portion of the year and for this reason but one inspection was made, at which time the ventilation was found to be very deficient. This is due to the excessive use of powder by the miners as practically all coal is blasted from the solid, and the present system of ventilation is by means of a furnace which is wholly inadequate to keep this mine clear of powder smoke. The roof is fairly good and the mine properly timbered; drainage moderate. Oil used meets with the requirement of law, stretchers and blankets are kept on hand and rules posted at the mine.

F. H. MATHEWS, Supt.

JOSEPH PIRRUNG, Mine Boss.

#### MASON COUNTY.

##### HOPE SALT AND COAL COMPANY.

No. 216. *Hope Mine*.—During the year this Company has abandoned its old mine, and reopened what was formerly known as the old Mason City mine, which had been idle for several years and had partly filled with water, which has caused a great deal of delay and expense in getting the mine ready to produce coal sufficient to operate the furnace. At the last inspection the ventilation was found to be only fair but a mechanical system will be installed in the near future. Oil used meets with the requirements of law.

D. C. DAVIS, Supt.

HENRY WILLIAMS, Mine Boss.

##### MASON CITY MINING COMPANY.

No. 217. *McDaniel Mine*.—This mine was idle a portion of the year and for this reason but one inspection was made, at which time the ventilation was found to be fair, but few men being employed in the mine. The present system of ventilation is produced by a small fan operated by a gasoline engine. The roof is good and the mine is properly timbered. Some sections of the mine generate a great deal of water; drainage moderate. Oil used meets with the requirement of law. Rules are posted at the mine.

G. H. GRESS, Supt.

W. L. HARRIS, Mine Boss.

##### LIVERPOOL SALT AND COAL COMPANY.

No. 218. *Jackson Furnace Mine*.—This mine was regularly inspected twice during the year at which time the condition in regard to the general safety of all entries and rooms was found to be good and the mine properly ventilated. The roof is generally good and the mine well timbered. Drainage good. Oil used meets with the requirements of law and rules are posted at the mine.

H. F. SMITH, Supt.

SAMUEL EDWARDS, Mine Boss.

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*HARTFORD CITY SALT COMPANY.*

No. 219. *Hartford Mine.*—This mine was idle the latter part of the year and for this reason but one inspection was made, at which time the condition as to general safety of all entries and rooms was found to be good and the mine well ventilated. The roof is good and the mine properly timbered; drainage generally good. Oil used meets with the requirements of law.

D. E. NEWTON, Supt.

RICHARD JENKINS, Mine Boss.

*CONSUMERS COAL AND MINING COMPANY.*

No. 220. *New Castle Mine.*—This mine was regularly inspected twice during the year. At the time of last inspection the condition in regard to ventilation was found to be good as a new furnace had recently been constructed which was giving satisfactory results. The roof is slate of an uncertain and dangerous nature and requires careful attention to insure safety. The miners are well supplied with timber and the mine is well timbered. Drainage only moderate. Oil used meets with the requirements of the law. Rules are posted at the mine.

HARRY HART, Supt.

JAMES SMITH, Mine Boss.

*CAMDEN CLAY COMPANY.*

No. 221. *Camden Mine.*—This mine was idle a portion of the year and for this reason but one inspection was made, at which time the general safety of all entries and rooms was found to be good. The roof is exceptionally good and the mine properly timbered. Drainage moderate. Ventilation is found to be sufficient as there are but few men employed in this mine. Oil used meets with the requirements of the law. Stretchers and blankets are kept on hand. As yet, no rules are posted at the mine.

N. W. QUILLIN, Supt.

JOSEPH E. ARMSTRONG, Mine Boss.

*KLONDIKE COAL COMPANY.*

No. 222. *Klondike Mine.*—This mine was idle the latter part of the year, and for this reason but one inspection was made at which time ventilation was found to be deficient in some sections, which was due to neglect in keeping mine doors and stoppings in good condition. The general safety of all entries and rooms was found to be good. The roof is very good and the mine properly timbered. Drainage good. Oil used meets with the requirements of law and rules are posted at the mine.

H. G. GREER and HOWARD ROBINSON, Supt. and Mine Boss.

S. L. WAYLAND, Mine Boss.

*BEECH GROVE COAL COMPANY.*

No. 223. *Beech Grove Mine.*—This mine was regularly inspected twice during the year at which times the condition in regard to ventilation was found to be somewhat deficient as the present system is by means of the exhaust steam from an underground pump which is inadequate for the proper ventilation of the mine. Oil used meets with the requirements

of law. Rules are not posted at the mine, nor stretchers nor blankets kept on hand.

JOSEPH ICENHOUR, Supt.

P. F. DAILY, Mine Boss.

*THOS. D. HARRIS.*

No. 224. *Harris Mine.*—This mine was regularly inspected once during the year at which time the condition in regard to ventilation was found to be only fair. The roof is good; drainage moderate. The capacity of this mine is small and but very few men employed as the output is principally consumed by the local trade.

THOMAS D. HARRIS, Supt.

JOHN HARRIS, Mine Boss.

PUTNAM COUNTY.

*PLYMOUTH COAL AND MINING COMPANY.*

No. 225. *Plymouth Mine.*—This mine was regularly inspected twice during the year at which time the condition in regard to ventilation was found to be fairly good except at the face of the main heading, where the air was found to be quite close. The roof, in some sections of the mine, is bad, being of an uncertain and dangerous nature and must be well timbered to insure safety. The miners are well supplied with timber and, as a rule, take great care to have their places properly timbered. Drainage moderate. Haulways in fair condition only. Oil used meets with the requirements of law, rules are posted at the mine, and stretchers and blankets kept on hand. The attention of the mine boss was called to the deficiency in the ventilation at the main heading with the request that steps be taken to better this condition.

W. C. MITCHELL, Supt.

JOSEPH VIRGIN, Mine Boss.

No. 226. *Manilla Mine.*—This mine was regularly inspected twice during the year. At the time of the first inspection the ventilation was found to be very deficient; but at the time of second inspection, a new fan had been installed which resulted in an excellent system of ventilation. The roof is slate of an uncertain and dangerous nature and must be carefully propped to insure safety. The miners are well supplied with timber and as a rule the mine is well timbered. Drainage only moderate. Oil used meets with the requirements of law. Stretchers and blankets on hand and rules posted at the mine.

W. C. MITCHELL, Supt.

JOSEPH VIRGIN, Mine Boss.

*OTTO-MARMET COAL AND MINING COMPANY.*

No. 227. *Pocatalico Mine.*—This mine was regularly inspected twice during the year at which time the condition in regard to ventilation was found to be somewhat deficient. This is partly due to the fact that the principal work at this mine is robbing pillars, there being but few rooms worked at this time. As a general thing the roof is bad but the men are well supplied with timber and the mine is properly timbered. Drainage good. Oil used meets the requirements of law. Stretchers and blankets are kept on hand and rules posted at the mine.

EDWARD SCHONEBAUM, Supt.

DAVID SANTROCK, Mine Boss.

No. 228. *Big Otto Mine No. 1.*—This mine was regularly inspected

twice during the year at which time the condition in regard to ventilation was found to be generally good, as a fan was installed during the year which gives a good system of ventilation. The roof is good except in some sections there is a draw slate from 4 to 10 inches thick, which must be taken down or carefully timbered. The miners are well supplied with timber and, as a rule, take pains in keeping their places properly timbered. The mine generates very little water; drainage moderate. Haulways in good condition with ample room for workmen to pass the cars. Oil used meets with the requirements of law, stretchers and blankets are kept on hand and rules posted at the mine.

EDWARD SCHONEBAUM, Supt.

ANDREW UTT, Mine Boss.

No. 229. *Big Otto Mine No. 2.*—This mine was regularly inspected twice during the year, at which times the condition in regard to ventilation was found to be good except at the No. 3 opening where it was found to be somewhat deficient; but very few men were employed in this opening and preparations were being made to install a fan in the near future. The roof is good with the exception of some sections where there is a draw slate which varies in thickness from 4 to 10 inches, which must be carefully propped or taken down, to insure safety. The miners are well supplied with timber and the mine is properly timbered. Haulways in good condition. Drainage moderate. Oil used meets with the requirements of law. This company takes a good deal of pride in keeping these mines in first class condition and endeavors to comply with the requirements of the mining law.

EDWARD SCHONEBAUM, Supt.

ROBERT FIELDS, Mine Boss.

#### BLACK BETSEY COAL MINING COMPANY.

No. 230. *Black Betsey.*—This mine was regularly inspected twice during the year at which times the condition in regard to the ventilation was found to be deficient. Owing to the large development the furnace was inadequate, but preparations were being made to install a fan. As a rule the roof is of a very uncertain and dangerous nature and must be carefully propped to secure safety. The miners are well supplied with timber and most of the working places are well timbered. Haulways are in good condition. The mine is practically dry; drainage moderate. Oil used meets with the requirements of law; stretchers and blankets are kept on hand and rules posted at the mine.

The superintendent's attention was called to the deficiency in ventilation with the request that the fan be installed without delay. Owing to the large number of doors that are used in this mine and the position in which they are located it is a question whether one fan will produce sufficient ventilation to comply with the mining law.

R. M. SHELDON, Supt.

GEORGE CARY, Mine Boss.

#### OAK FOREST COAL AND MINING COMPANY.

No. 231. *Oak Forest Mine.*—This mine was idle a greater portion of the year and for this reason but one inspection was made, at which time the general safety of all entries and rooms was found to be good and the mine properly ventilated. Drainage, moderate; the roof is generally

good and the mine well timbered. Oil used meets with the requirements of law. Rules are posted at the mine.

During the year a substantial and up-to-date tipple has been constructed at the river, and other improvements made, which will greatly facilitate the loading and shipping of coal.

D. L. THOMAS, Supt.

WILLIAM THOMAS, Mine Boss.

*ALPHA COAL MINING COMPANY.*

No. 232. *Alpha Mine.*—This mine is located on the main line of the K. & M. Railroad, one mile below Plymouth. The Pittsburg Seam of coal will be operated at this point. At present, openings are being made and other improvements are under way.

## THIRD DISTRICT.

GENERAL SUMMARY OF THE THIRD DISTRICT FOR THE  
YEAR ENDING JUNE 30, 1904.

| COUNTY.       | Number of Openings. | EMPLOYEES.   |                 |                            |           |        |           |               |        | No. of Men Killed. | PRODUCTION.                     |                                 |              |
|---------------|---------------------|--------------|-----------------|----------------------------|-----------|--------|-----------|---------------|--------|--------------------|---------------------------------|---------------------------------|--------------|
|               |                     | Inside.      |                 |                            |           |        | Outside.  |               |        |                    | Coal<br>(tons of<br>2,240 lbs.) | Coke<br>(tons of<br>2,000 lbs.) |              |
|               |                     | Pick Miners. | Machine Miners. | Machine Runners & Helpers. | Laborers. | Total. | Laborers. | Coke Workers. | Total. |                    |                                 |                                 | Grand Total. |
|               |                     |              |                 |                            |           |        |           |               |        |                    |                                 |                                 |              |
| Fayette.....  | 138                 | 5,074        | 1,846           | 291                        | 2,041     | 8,752  | 1,118     | 646           | 1,764  | 10,516             | 82                              | 5,650,217                       | 434,919      |
| Nicholas .... | 7                   | 56           | 26              | 8                          | 17        | 107    | 23        | ....          | 28     | 135                | 1                               | 25,723                          | .....        |
| Raleigh ....  | 20                  | 536          | .....           | .....                      | 234       | 770    | 99        | ....          | 99     | 869                | 5                               | 406,226                         | .....        |
| Totals ....   | 160                 | 5,666        | 1,872           | 299                        | 2,282     | 9,629  | 1,245     | 646           | 1,891  | 11,520             | 87                              | 6,082,166                       | 434,919      |

## OFFICE OF THE THIRD DISTRICT MINE INSPECTOR.

MONTGOMERY, W. VA., June 30, 1904.

HON. JAMES W. PAUL,

Chief Mine Inspector,

Charleston, W. Va.

SIR:—I have the honor to submit to you my annual report as Mine Inspector of the Third District of West Virginia, as required by section 3 of the mining laws of this State, for the year ending June 30th, 1904.

In the western end of Fayette County there are now 36 mines in the No. 2 Gas and five mines in the No. 1 Gas seams being operated, and seven mines in the Winifrede, Coalburg and No. 5 Seams. In the eastern end 58 operations are in the Sewell and 23 in the Quinnimont or Fire Creek seams, making a total of 129 operations in this County, without taking into consideration some small local mines operated exclusively for home trade. In Raleigh County there are 17 operations, 12 in the Fire Creek and 5 in the Sewell Seams. In Nicholas and the eastern end of Clay County there are 10 splint mines and 1 gas coal mine making a grand total in this district of 157 mines, eleven of these mines are situate west of the Gaudley River and on the north side of the Great Kanawha River and are attended to by the Inspector of the Second District, leaving 146 operations in my charge.

During the past year I have made 306 inspections to these various mines and twenty visits for the special purpose of investigating fatal accidents, the findings of which have been duly forwarded to you at your office.

The improvements made during the past year have been to some extent limited and have been chiefly confined to the completion of improvements on hand at the beginning of the year. Notably among which are the completion and building of W. P. Rend's Arbuckle Branch Line from Thurmond to Rend, a distance of nearly 5 miles; the 7 mile extension of the White Oak Valley R. R. from Carlisle to Stuart and Parral Shafts, and the successful completion of both shafts, reaching the Sewell Seam in the Par-



ral at 685 and the Stuart at 568 feet. The Wingrove Shaft has also been successfully sunk 184 feet to the Sewell Seam on this same line of road and practically by the same parties, The White Oak Fuel Co. This year's improvements are as follows: Several electric plants installed for haulage purposes, there being now 37 electric plants in operation against 29 in 1903.

All the recently installed haulage plants have been in the New River field and are of the Morgan Third Rail type, and without exception, are giving complete satisfaction in those mines where the grades are unusually heavy and irregular. There are at present 38 trolleys and 19 third rail motors in operation for haulage purposes in the section of the district over which I preside.

There are also 78 electric and 95 compressed air punching machines, in this section of the district, a gain of only 1 machine during the year. Several of these machines are at present only occasionally operated, and at this date, some are not operated at all.

Seven rope haulages have been discontinued during the year and have been replaced by electric haulages. There have been no compressed air plants installed during the year.

At this point I wish to call your attention to the fact that while we are making wonderful progress in the installation of electric machinery for the purpose of haulage, pumping, illuminating and fan power in this district, we are about on a standstill so far as mining by machinery is concerned, either with the electric chain or the puncher machines. There are several reasons why mining with machines is almost at a standstill and making little or no progress in this particular field. There are 129 soft coal mines in this district, several of them have been in operation for years and are subjected more or less to squeezes or pressure following up the work, which of course acts upon the coal seam and to some extent breaks it up, and when the mining is done great care has to be exercised or down drops the lower part of the seam and pinches the cutter-bar. This very frequently occurs in the gas seams. The roofing conditions in every part of this field are to a very large extent unfavorable to the safe and successful operation of machines of any type. The seams are also very irregular in thickness, ranging from 2 ft. 10 in. to 6 ft., especially in the New River region. The New River seams at all points almost without exception are softer next the roof than they are near the floor and in a very large percentage of the field the coal seam sticks very strongly to the floor and when mined by the electric chain machine from 2 to 4 in. of coal is left which has to be dug up with miners' picks and is known as "scrapping". This is very hard and unpleasant work and any regular miner would much prefer to make a cut on the top of the seam than to do the "scrapping" after a machine cut. The grades in these seams are also very irregular as a general thing which is quite a drawback to the operating and moving from place to place of those heavy pieces of machinery. Very few of the regular and practical miners who understand how to clean and properly prepare these coals for shipment care to load after machines hence many unskilled laborers and men who scarcely know the difference between coal and the few impurities

which are found in these Kanawha seams are often found at this work. The results are many complaints are heard of from consumers of the coal, and loss of trade from this cause.

Air punching machines have failed up to date to give general satisfaction since their introduction into this field. Several firms have installed plants and have at different times operated them. Some of these firms have entirely abandoned them and many others only operate them in isolated places, such as entries where the coal is hard, low, croppy, or where the work is disagreeable on account of water, etc., and then pay those operating them about the same rate per ton as is paid for pick mined coal. There are only three firms which are now operating this class of mining machines to any extent: namely, Gauley Mountain Coal Co., Low Moor Iron Co. and The New River Smokeless Coal Co. at its Rush Run Mine. In all of these mines there is about as much pick coal produced as is produced by the machines. The only mines where mining by machinery has been to all appearances successful in this district are in the hard coal seams and a few of the mines that have been recently opened in the No. Gas Seam, and in those mines the seam has been of a uniform thickness, ranging from 5 to 6 feet, and where grades were such that little inconvenience was experienced in moving the electric machines from room to room. There is usually a slick parting between those coal seams and the floor which makes the "scrapping" very easy, so what coal the machine leaves can be lifted up in large cakes by the miner's pick, in short order and with a very small amount of labor. The roofs in those seams are good when the mining is conducted in a systematic form.

From what observations I have made during the past four or five years I am very strongly of the opinion that machine mined coal, where conditions are not favorable, has no advantages over pick mined coal in point of cost and actual profit from a general business standpoint, and especially so in regard to coal produced by punching machines, even if it holds its own in point of production. In regard to the condition of the mines; from a general standpoint, including the ventilation arrangements, system on which they are developed, condition of haulways, airways, second openings, etc, some of them are in what may be justly designated first class condition. They are mines which have only been in operation a limited number of years and have been operated in a proper and systematic manner with a view to a long future as well as the present existence of the plants. Good substantial stoppings are built and suitable fans installed, etc. There are other mines which may be classed as being in fairly good condition and where the requirements of the mining laws are regularly observed, but the system on which they are developed and kept up are of a less costly and of a more temporary nature. This is especially so in regard to ventilation and drainage arrangements. In many of these mines the double and single entry systems combined are in operation; plank stoppings are built for permanent use and some of them are oftentimes more or less out of order; the fans and furnaces at many of these mines are barely adequate for their requirements, and when atmospheric conditions are against them, to some extent, the conditions of these mines become only moderate from the fact that a majority of them are developed

in mountain ranges and in many instances hundreds of feet above the water level of the community in which they are located. There is often quite a difference in the levels, ranging from fifty to a hundred and fifty feet, of the various openings made for haulage and ventilation purposes. Those conditions very largely affect the ventilation of the mines, when the mechanical or other power installed for this purpose is only equal to the requirements under ordinary circumstances, and, in fact, it is no uncommon occurrence during the summer months, at mines where furnaces are depended upon for ventilating power, and those furnaces installed at the highest point, to have the air currents reverse and carry the smoke, etc., into the mine, and thereby create, if not dangerous, at least, very undesirable conditions.

As in my report of 1901 I desire to again call your attention to the fact that it is an impossibility for the District Inspectors to comply with all the requirements as set forth in the mining laws.

From the fact that very few of our miners or citizens in general have any conception of the stupendous duties which devolve on any one individual who becomes responsible for the keeping in proper form and safe condition, from every standpoint, over one hundred mines, scattered over four or five different counties, and in which from ten to fifteen thousand men are constantly employed, under present conditions, a large number of miners and other people connected with the coal mining business naturally think that the Inspector is neglecting his duties because he is not able to visit every mine once in three months, as required by our present mining laws.

The new operations started during the year are: the Dungen, Newlyn, Pennsylvania & New River, Cataract, Beckley and Wingrove.

In conclusion I wish to say that during the year just closed, although existing conditions necessitated a re-adjustment of prices and a reduction in wages, it is a credit, worthy of notice, to the operators, labor leaders and workmen in general, that no strike or unpleasant relations between employer and workmen were created.

I wish to return my sincere thanks to all our mining officials of every grade for their kind and considerate treatment extended to me during the year and the promptness with which a majority of them have carried out and complied with changes suggested by me. Also to all miners and other employes in connection with the mining craft for their courtesy, and in many instances the valuable and timely information they have imparted to me, and by which I have been able on several occasions to prevent violations of the mining laws, and especially so in connection with the use of inferior oils. The companies have not shown any disposition to keep impure oils but there are some workmen, and especially some of the drivers, who buy inferior oils and attempt to mix them.

I wish to return my sincere thanks to yourself for your kindness and valuable assistance during the year and hope that all future relations will be as pleasant as those in the past.

Most respectfully yours,

EDWARD PINKNEY,  
*Mine Inspector 3rd District.*

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**CONDITION OF THE MINES IN THE THIRD MINING DISTRICT.****EDWARD PINKNEY, INSPECTOR.**

(NOTE.—Mines Nos. 233 to 245, inclusive, were inspected and reported upon by Mr. Henry, Inspector of the Second Mining District.)

**FAYETTE COUNTY.****HICKORY CAMP COAL AND COKE CO.**

No. 233. *Hickory Camp Mine*.—This mine is located on Paint Creek, 16 miles from Paint Creek Junction, and operates the No. 2 Gas coal seam. No regular inspection of this mine has been made as the arrangements for shipping coal are not yet completed.

**KANAWHA AND HOCKING COAL AND COKE COMPANY.**

No. 234. *K. & H. Mine No. 111*.—This mine was regularly inspected twice during the year at which time the condition in regard to the general safety of all entries and rooms was found to be good. The roof, as a general rule, is very good and the mine is properly timbered, and the haulways in good condition with sufficient room for the workmen to pass the cars. Very little water is generated in this mine. Drainage moderate. Ventilation was found to be deficient in some sections of the mine, this being due to the defective condition of mine doors and stoppings. The attention of the superintendent was called to the defective ventilation with the request that mine doors and stoppings be repaired and kept in such condition that the air current will be properly distributed throughout the mine. It was found that an inferior oil was being used by a few of the drivers at this mine. Assurance was given that this would not be done in the future. Rules are posted at the mine and stretchers and blankets kept on hand

THOMAS E. ROAN, Supt.

J. W. STRAUGHAN, Mine Boss.

No. 235. *K. & H. Mine No. 112*.—This mine was regularly inspected twice during the year at which time the condition in regard to the general safety of all entries and rooms was found to be good. The roof is generally good and the mine properly timbered. The haulways are kept clear of obstructions with sufficient room for the workmen to pass the cars. Ventilation is good except in a few rooms where the air is quite close, this being due to neglect to make break-throughs between rooms as required by law. There is very little water to contend with in this mine; drainage moderate. Oil used meets with the requirements of the law. Rules are posted at the mine and stretchers and blankets kept on hand.

THOMAS E. ROAN, Supt.

J. W. STRAUGHAN, Mine Boss.

No. 236. *K. & H. Mine No. 113*.—This mine was abandoned the early part of the year and for this reason no inspection was made. The company is undecided as to when operation will be resumed at this mine.

THOMAS E. ROAN, Supt.

No. 237. *K. & H. Mine No. 114*.—This mine was regularly inspected twice during the year when the condition in regard to safety of all entries and rooms was found to be good. Ventilation somewhat deficient this being due to improperly constructed mine doors and stoppings and neg-

lect to make break-throughs between rooms as required by law. The attention of the superintendent was called to this defective ventilation and the causes. He gave assurance that steps would be taken to remedy the defect at once. The roof is good and the mine properly timbered. Haulways in good condition with sufficient room for workmen to pass the cars. This mine generates a very small quantity of water. Drainage good. It was observed that some of the laborers employed in this mine were using an inferior quality of oil. The Mine Boss promised to give this matter his attention and see that in future, the use of inferior oil would be prohibited in this mine. Rules are posted at the mine and stretchers and blankets kept on hand.

THOMAS E. ROAN, Supt

ROBERT TAYLOR, Mine Boss.

No. 238. *K. & H. Mine No. 115.*—This mine was inspected twice during the year when the condition in regard to safety of all entries and rooms was found to be good. The roof is good and the mine properly timbered. Haulways in good condition with sufficient room for workmen to pass the cars. Drainage moderate. Ventilation was found to be good on the headings but quite deficient in some of the rooms, which was due to the neglect to make break-throughs at proper distances as required by law. The superintendent's attention was called to this matter and he gave the assurance that in the future break-throughs should be made between rooms at a distance that would insure proper ventilation. Oil used meets with the requirements of law; stretchers and blankets are kept on hand and rules posted at the mine.

THOMAS E. ROAN, Supt.

ROBERT TAYLOR, Mine Boss.

No. 239. *K. & H. Mine No. 117.*—This mine was regularly inspected twice during the year when the condition in regard to ventilation was found to be fairly good. The roof is good except in some sections of the mine where there is a draw slate varying in thickness from 3 to 18 inches, which has to be taken down or carefully timbered. The miners are well supplied with timber and, as a rule, the mine is properly timbered. Haulways in fair condition; drainage moderate. Oil used meets with the requirements of law. Rules are posted at the mine and stretchers and blankets kept on hand.

THOMAS E. ROAN, Supt.

C. D. BIRTHISEL, Mine Boss.

#### COLUMBUS IRON AND STEEL COMPANY.

No. 240. *Columbus No. 1 Mine.*—This mine was regularly inspected twice during the year when the condition in regard to safety of all entries and rooms was found to be good. The roof is good and the mine properly timbered. Haulways in good condition with ample passing room. Drainage moderate. The ventilation was found to be generally good throughout the mine. Oil used meets with the requirements of law, stretchers and blankets are kept on hand and rules posted at the mine.

G. H. MARTING, Supt.

JOHN PHILLIPS, Mine Boss.

#### KANAWHA GAS COAL COMPANY.

No. 241. *Kanawha Gas Mine.*—This mine was regularly inspected twice during the year, when the ventilation was found to be somewhat deficient, especially in many of the rooms, this being due to neglect to make

break-throughs between the rooms as required by law. The Superintendent's attention was called to this condition and he gave the assurance that, in the future, break-throughs would be made at proper distances. The mine has an excellent roof and is well timbered. With the exception of one room, the safety of all entries and rooms was found to be good. Haulways in good condition with sufficient room for workmen to pass the cars. Oil used meets with the requirements of law. Stretchers and blankets are kept on hand and rules posted.

All coal is mined by the electric chain-cutter machines, conditions being very favorable to this system of mining.

T. A. BARTLAM, Supt.

JOHN H. TITLOW, Mine Boss.

*W. R. JOHNSON AND COMPANY.*

No. 242. *Oakland Mine.*—This mine was regularly inspected twice during the year, when the condition in regard to the general safety of all entries and rooms was found to be good. The mine is practically dry, the roof is good and the mine properly timbered. Haulways are in first-class condition with sufficient room for workmen to pass the cars. Ventilation is generally good throughout the mine. Oil used meets with the requirements of law and rules are posted and stretchers and blankets kept on hand.

The coal is practically all mined by electric mining machines, as conditions at this mine are very favorable to this system of mining.

T. A. BARTLAM, Supt.

BEN HILL, Mine Boss.

*BOOMER COAL AND COKE COMPANY.*

No. 243. *Boomer Mine No. 1.*—This mine was idle a portion of the year and for this reason but one inspection was made when the condition in regard to safety of all entries and rooms was found to be good. Haulways in good condition with ample room for workmen to pass the cars. The roof is excellent and the mine properly timbered. Drainage moderate. Ventilation is generally good throughout the mine. Oil used meets with the requirements of the law, stretchers and blankets are kept on hand, and rules posted at the mine. Coal is principally mined by electric machines.

During the year the Company has dispensed with the incline and installed conveyors which are successfully operated by an electric motor.

W M. GILLIE, Supt.

MIKE BLYTHE, Mine Boss.

No. 244. *Boomer Mine No. 2.*—This mine was regularly inspected twice during the year when the condition in regard to the general safety of all entries and rooms was found to be good. Ventilation was generally good with the exception of one section known as the Klondike, where the air was deficient, but arrangements were already under way to remedy this matter. The roof is good and the mine properly timbered; drainage only moderate. Haulways in good condition, there is ample room for workmen to pass the cars. Oil used meets with the requirements of law, stretchers and blankets are kept on hand, and rules posted.

During the year pick mining has been abandoned and all coal, at this mine, is now mined by electric chain-cutter machines.

W. M. GILLIE, Supt.

JOSEPH NUTTER, Mine Boss.

No. 245. *Boomer Mine No. 3.*—This mine was regularly inspected twice during the year when the condition in regard to the general safety of all entries and rooms was found to be good and the mine properly ventilated. The roof is good and the mine well timbered.

The mine generates very little water; drainage moderate. Haulways in good condition with sufficient room for workmen to pass the cars. Oil used meets with the requirements of law. Rules are posted at the mine. Coal is mined by electric chain-cutter machines exclusively, with good results.

W. M. GILLIE, Supt.

HENRY M. DEEMS, Mine Boss.

#### GORDON COAL AND COKE CO.

Nos. 246, 247 and 248. *Eureka Mines Nos. 1, 2 & 5.*—These mines are located on Morris Creek on a branch line of the C. & O. R. R. The developments are in the Nos. 2 & 5 seams. The roofing condition in the Nos. 1 and 2 mines is very badly mixed. The roof is slate and in some sections of the operations is good, sound and reliable and requires very little timber to make it safe, in other sections it has to be heavily timbered and regularly attended, otherwise it would become unsafe in a short time. The work is conducted principally on the double entry system and the ventilation is produced by a 10 foot Crawford and McCrimmon fan and is only moderate on account of the fan being inadequate for present requirements. These mines make no water worth notice only enough to keep the road beds moist in some sections. The mining laws are apparently observed in every detail; proper oils as required by law are kept and sold by the company for illuminating purposes, &c.

The No. 5 operation is on the same lease but in a different seam. The ventilation is natural and being near the top of the mountain is usually very good. The roof is good, drainage and all other arrangements have always been satisfactory.

Three regular inspections have been made of these mines during the year and the reports filled out in regard to the existing conditions at those different periods and forwarded to the Chief Inspector as required by law.

GEO. FRASER, Supt.

BRAD. HOWERY and JAMES FRASER, Mine Bosses.

Nos. 249 and 250. *St. Clair Mines Nos. 1 & 2.*—These mines are located on the Great Kanawha River and C. & O. main line. The developments are in the Nos. 1 and 2 Gas Coal seams. The roof in the No. 1 mine is slate and good, and the work is principally double entry system. The ventilation is produced by a 10 foot Crawford and McCrimmon fan and is good all over the mine. There is very little water to contend with.

Two inspections were made of this mine during the year: on both occasions all conditions were found satisfactory and all mining laws were apparently being observed.

The roof in the No 2 mine is slate and in many sections of the mine

is bad and has to be carefully timbered and regularly attended. The work is conducted principally on the double entry system. The ventilation is produced by a 10 foot Crawford and McCrimmon fan and under present conditions is very moderate, the return air-way being almost blocked for long distances by falls of slate. A new opening is being made at the back of the mountain which when completed will be quite an improvement and one that is absolutely needed for proper second outlet, ventilation, &c.

Two inspections of each of these mines were made during the year, at which times the conditions existing were carefully noted and apparently all requirements of the mining laws were being reasonably complied with, except the posting of special rules and keeping the main air-ways in proper condition.

GEORGE FRASER, Supt.

WM. KNIGHT, Mine Boss.

*CHAPMAN IRON, COAL AND COKE CO.*

No. 251. *Central Mine*.—This mine was visited and inspected on two occasions during the year. The roof is slate and in some sections only moderate. The seam is thin and for some years this operation has only been run on, what might be termed, a small scale. The ventilation is good, being produced by a ten foot disc fan. There is very little water to contend with. All mining law requirements are in every respect reasonably observed. Oil for illuminating purposes which is sold by the company to all workmen is up to the required standard.

WM. K. CUSTRED, Supt.

CHARLES BOYD, Mine Boss.

*MECCA COAL & COKE CO.*

Nos. 252 & 253. *Mecca Mines Nos. 2 & 5*.—These mines are located on Morris Creek, a tributary of the Great Kanawha River, and on the Morris Creek Branch of the C. & O. R. R. These mines were inspected three times during the year: the haul-ways, working places, air-ways, second openings, &c, were found in every instance safe, properly timbered where necessary and in line with the requirements of mining laws on these subjects. The work is principally double entry. The ventilation which has heretofore been produced by a 10 foot fan of the home-made type in the No. 2 mine has been very moderate for some time past. This defect however has now been remedied by the installation of a new 10 ft. disc fan near the face of the advance work which is operated by electric power and, I understand, gives very good results. The No 5 mine's ventilation is natural. It is close to the top of the mountain and there are several drifts at different points and usually there is a very fair ventilating current either one way or the other. The No. 2 mine while not excessively dry has practically no water to contend with. The No. 5 mine is much damper and has good natural drainage. At both these mines the requirements of the mining laws are apparently observed by the officials in charge. The company keeps on hand for sale to its workmen oils which are up to the standard requirements.

JOHN CARVER, Gen. Mgr.

W. H. THOMPSON, Mine Boss No. 2 Mine.

ALFRED CARVER, Mine Boss No. 5 Mine.



*ECONOMY FUEL CO.*

No. 254. *Economy Mine*.—This mine is located on the Great Kanawha River and on the main line of the C. & O. R. R. The developments are in the Eagle or No. 1 Gas seam. Two inspections were made during the year. The haul-ways and working places in general were found on each occasion in a satisfactory condition, properly timbered and free from obstructions. The ventilation which is produced by two small furnaces is sometimes all right and, I understand, is sometimes all wrong. Notwithstanding there is at least forty feet of stack on one of these furnaces, it will on certain occasions and under special conditions, down draught and drive the smoke into the workings. In some sections of this mine there is considerable water to contend with which is handled chiefly by electric pumps after being properly drained to a certain point. All the requirements of the mining laws in regard to general safety, sale and use of proper oils in the mines are apparently observed and constantly enforced. Shipments are made by river and rail.

WM. A. JONES, Gen. Manager.

CALVIN MORRIS, Mine Boss.

W. R. JOHNSON.

Nos. 255, 256, 257. *Crescent Mines Nos. 1, 2 & 5*.—These mines are located all on one lease and in different seams of coal. The plant is situate on the Great Kanawha River and C. & O. main line. The No. 1 mine's developments are in the Eagle or No. 1 Gas seam. The roof is principally sand stone and good. The developments are on the entry and air-way plan. The ventilation is produced by a 10 foot disc fan which gives good results. The drainage is poor and at present a large number of the workings are flooded and idle.

The No. 2 mine's developments are in the Gas seam No. 2 and are all pillar work and will be exhausted in a very short time. The roof is slate and in some sections is very much broken by squeezes. The ventilation is produced by a 10 foot Crawford and McCrimmon fan which does very well. The drainage is poor and the roads and some of the working places very wet caused by numerous breaks in the roof.

The No. 5 mine's developments are in the Splint Block Seam and something after the No. 2 conditions, all the work practically speaking, is pillar work. The roof is slate but not as much broken as the No. 2. The seam is near the top of the mountain and the weight is not nearly so severe. The drainage although good from a natural standpoint is very poor on account of the quantity of water to contend with and irregular grades. All the roads are muddy and wet.

These mines were inspected twice during the year and found very satisfactory in their appointments considering the conditions constantly to be contended with.

THOMAS A. BARTLAM, Supt.

J A. KIRBY and LON WATERS, Mine Bosses.

*CARVER BROTHERS CO.*

Nos. 258, 259, 260, 261, 262 & 263. *California, Eagle, Edgewater No. 1, Edgewater No. 2, Edgewater No. 3 Mines*.—This group of mines is located

on the Great Kanawha River and on the main line of the C. & O. R. R. on two leases joining each other. The developments are in three different seams, known as the Nos. 1, 2 & 5 seams.

The Eagle mine No. 1 and the California mine are two separate openings on the Eagle lease and in the same seam. The Edgewater No. 1 mine is also in this seam but on the adjoining lease. All these mines are holed through into each other, and, practically speaking, their ventilation is conducted jointly. At the Eagle No. 1 mine there is a ten foot fan and at the Edgewater No. 1 and California mine there is a sixteen foot fan. The ventilation in these mines from a general stand-point is fairly good. There is, however, in some sections of them, moderate ventilation. In all three mines, the roofing conditions are somewhat similar. In a majority of all the places there is about 6 or 7 inches of draw slate which comes down as soon as the coal is taken away from under it. Above this there is usually a very good roof. The drainage in all three of these mines is very poor and a large majority of the haul-ways is muddy and wet. Two inspections were made of each of these three mines during the year and apart from the wet and muddy condition of the road-ways, and the somewhat untidy condition of gob piled up on the sides of the entries, the mines here were apparently safe from every standpoint and otherwise in a satisfactory condition.

The Edgewater No. 2 and Eagle No. 3 mines are developing the No. 2 Gas seam and there are two separate openings and separate tipples. Both these mines are holed through into each other and the ventilation in them is jointly conducted. The ventilation is produced by a 16 foot Crawford and McCrimmon fan and where the air-ways have been kept in proper order, the ventilation has been good. In some sections of both these mines, however, it has been only very moderate. This was principally brought about by the management allowing some of the most important air-ways to cave-in during the strike, and took a long period to get into proper shape again. The roof as a general rule is fairly good in both these mines except where there are squeezes existing. The drainage is fairly good in both mines. Three inspections were made during the year of each of these mines, at which times every arrangement was satisfactory and all conditions apparently safe, except the ventilation of some sections of the mines.

The Edgewater No. 5 mine is being operated in the splint block seam and a majority of all the work being done now is drawing pillars and stumps. The ventilation is natural. However, there are such a number of openings at all points that the mine is well aired. The roof is fairly good and the drainage as favorable as can be expected, considering the existing conditions. Two inspections were made of this mine during the year and every arrangement was found satisfactory and at all these mines the requirements of the mining laws were being fairly lived up to.

ENOCH CARVER, Gen. Mgr. JOHN E. CARVER, General Mine Boss.

JOHN THURMOND, Mine Boss No. 5 Mine.

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*THE MT. CARBON CO., LIMITED.*

Nos. 264, 265 & 266. *Vulcan Nos. 1 & 2 & Excelsior Mines.*—These mines are located on Armstrong Creek, a tributary of the Great Kanawha River, and on a branch line of the C. & O. R. R. The Vulcan mines Nos. 1 & 2, are developed in the Powellton seam which is soft coal. The roofing in the No. 1 mine is slate which cuts very much on the entries and is very troublesome in the rooms and has to be very heavily timbered. The ventilation in the No. 1 mine is produced when necessary by a 10 foot disc fan installed about the center of the workings. This, however, on many occasions is not used, the natural conditions being such that the ventilation is very good without the aid of mechanical power. There is very little water with which to contend. Some sections of the mine are dry and others sufficiently damp to keep the roads in good shape.

The No. 2, or South Vulcan: At present the roof in the greatest portion of the developments is sandrock and very good. Both mines are developed principally on the double entry system. The ventilation in this mine as yet is natural and good, the developments not being very extensive and sufficient openings have been made at advantageous points. In this mine there is considerable water with which to contend and the permanent drainage arrangements have not yet been properly completed, but are under way and when completed will remedy and improve some of the entries which are muddy and wet at present.

The Excelsior Mine developments are in the splint coal seam, known as the grey splint or Excelsior Seam. The main roof is principally sand rock, however, small local beds of slate of a very irregular character and almost void of bedding planes or horizontal partings overlay the seam. The developments are on the double entry system and the ventilation is natural, which, under existing conditions is fairly good. The mine has, practically speaking, no water with which to contend.

All these mines were visited twice during the year and on each occasion all arrangements were found satisfactory and every requirement of the mining laws was apparently being observed and regularly enforced.

DAVID T. EVANS, Gen. Mgr.

JOHN I. ABSALOM, Mine Boss.

*THE GREAT KANAWHA COLLIERY CO., LIMITED.*

Nos. 267, 268, 269 & 270. *Digby, Mt. Carbon Nos. 1, 2 & 5 Mines.*—These mines are located on the Great Kanawha River and on the main line of the C. & O. R. R. Coal is shipped by river and rail. The No. 1 mine's developments are in the Eagle or No. 1 Gas coal seam. There are two separate openings, one at the front of the mountain and another recently opened at back of the mountain. Both of these mines are as yet being operated in a very limited manner. The roof is generally good and the seam thin, not exceeding 3 feet to 3 feet 6 inches in thickness. The ventilation is produced by an 8 foot fan and a small furnace and meets in a satisfactory manner all the necessary requirements. There is very little water with which to contend. The developments are principally on the double entry system, and from a general standpoint the mine is safe in every respect.

The Digby and Mt. Carbon No. 2 mines are in the Gas seam No. 2, having two separate openings and also two separate river and rail tipples. Both these mines are conducted on the double entry system and are ventilated jointly by natural means and in some sections of both mines the ventilation conditions are very moderate. Preparations are now in progress to install a fan in the Digby mine, which if carried out, no doubt will relieve this objectionable feature. The roof in both mines is fairly good slate and the general safety on all haul-ways from every stand-point is in line with the requirements of the mine laws. There is very little water with which to contend in either of these mines except near the outcrop where the drainage is very poor and especially so in the Digby mine which is very muddy and wet for several hundred feet.

The No. 5 mine's operations are in the No. 5 splint block seam and are very limited, consisting principally of taking out pillars, and it is estimated in about one year more this mine will be completely exhausted.

All these mines were inspected during the year on two separate occasions, each, at which times it was found that the requirements of the mining laws were being properly observed and that the general safety of these mines was up to the standard requirements of the mining laws.

RALPH STEGALL, Gen. Mgr.

THOMAS FIFE, Mine Boss.

#### CARDIFF COAL COMPANY.

Nos. 271, 272, 273 & 274. *Kimberly Nos. 1 & 2, Columbia No. 1 & Elk Ridge Nos. 1 & 2 Mines.*—This group of mines is located on Armstrong Creek a tributary of the Great Kanawha River, and on the Armstrong Branch of the C. & O. R. R.

These operations are all separate mines and the developments are all in the No. 2 Gas seam. They are all being developed on the double entry system. The roof in the Kimberly mines Nos. 1 & 2 is principally sand rock and good. The ventilation is created by a ten foot disc fan, which gives excellent results. The mines are practically speaking, dry. There being very little water with which to contend.

The Columbia mine is situated nearly two miles further up the creek. The roof is late and only moderately good. The seam is much thinner than at the Kimberly mine. The ventilation is produced by a small temporary furnace and for present requirements is satisfactory. There is considerable water with which to contend in this mine and as yet no permanent drainage arrangements have been perfected.

Three inspections of these mines were made during the year and at each inspection the general safety of the mines was satisfactory and apparently safe in detail. All mine law requirements are apparently observed in regard to the use of proper oils, &c.

The Elk Ridge mines Nos. 1 & 2 have not yet commenced to ship coal. The tipples are up and main openings, &c., are in proper shape to ship when the railroad is completed.

WM. A. CARVER, Gen. Mgr.

EDWARD FORBES and RICHARD HEMMINGS, Mine Bosses.

*GAULEY MOUNTAIN COAL COMPANY.*

Nos. 275 & 276. *Gauley Mt. Mines Nos 1 & 2.*—The Gauley Mt. mines are located at Ansted on the Mill Creek Branch of the C. & O. R. R. The two operations are in the No. 2 Gas Seam. The roof in these mines is slate and very bad. All places, entries and rooms, have to be very heavily timbered and carefully attended. The developments are all conducted on the double entry system principally and the ventilation produced by both fan and furnace power. These mines were inspected on two different occasions during the year and found in a very satisfactory condition from every standpoint; special rules posted, oil up to the standard, and all other requirements of the mining laws apparently observed and regularly enforced.

W. N. PAGE, Gen. Manager.

RALEIGH TAYLOR, Supt.

JAMES MARTIN, Mine Boss.

*LOUP CREEK COLLIERY COMPANY.*

No. 277. The Loup Creek Colliery Co's mines are located on Little Loup Creek, a tributary of the Great Kanawha River, and on the Deepwater R. R. Several openings have been made and coke ovens built. As yet no coal or coke has been shipped.

W. N. PAGE, Gen. Mgr.

WM. DOOLEY, Mine Boss.

*NEWCASTLE COAL COMPANY.*

No. 278. *Gaymont Mine.*—This operation is located on New River and on the the main line of the C. & O. R. R. The roof in this mine is fairly good and is kept properly timbered where necessary. There is very little water with which to contend, and the drainage arrangements are ample for the requirements. The ventilation is produced by a new 12 foot Crawford and McCrimmon fan which has been installed during the year and gives very good results. Three inspections were made of this mine during the year. When the last inspection was made after the installation of this fan the conditions existing in every department were found satisfactory and apparently safe in every detail.

H. B. CLARKSON, Supt.

A. T. TOLER, Mine Boss.

*ISABEL COAL AND COKE COMPANY.*

Nos. 279 & 280. *Elmo & Sunnyside Mines.*—These mines are located on New River and on the main line of the C. & O. R. R. The developments are in the Sewell seam, which at this point is thin. The roof in both mines in the working places is fairly good; on the entries it usually cuts and has to be either taken down or securely timbered. Both these mines have been extensively overhauled during the past year and especially so in regard to the inside work. The haulways have all been retimbered; new 8 foot disc fans have been installed and various other substantial improvements have been made. The developments are principally on the entry and air-way plan. These mines were inspected on two occasions during the year and were found satisfactory in all their appointments and apparently safe in every detail.

T. C. BEURY, Gen. Mgr.

RICHARD SEYMOUR, Mine Boss.

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*MICHIGAN COAL COMPANY.*

No. 281. *Michigan Mine*.—This mine is located on New River. The developments are in the Sewell seam and conducted on the double entry system. The ventilation is produced by a moderately large-sized furnace, which, when conditions are favorable, gives very good results. The roof is black slate and, except at local points, very good on all haulways when not broken. The floor is usually taken up in order to make the necessary height for haulage purposes. The drainage is good and every provision made for future requirements. This mine was inspected three times during the year and found in a very satisfactory condition on all occasions and apparently safe in all its appointments. All the mining law requirements, including the sale and use of proper oils for illuminating purposes, &c., are observed by the officials and every effort made to have their workman also comply therewith.

JAS. BOONE, Gen. Mgr.

VALL BACHMAN, Supt. and Mine Boss.

*FAYETTE COAL AND COKE COMPANY.*

No. 282. *Fayette Mine*.—This mine is located on New River. The developments are in the Sewell Seam and conducted on the entry and air-way system. The ventilation is produced by furnace power and in some sections of the mine is only moderate. The roof is black slate and is fairly good roof as a general rule. The drainage arrangements are fairly good. The mine law requirements, including the use of proper illuminating oils and keeping all haulways in safe condition, &c., are apparently observed. Two inspections of this mine were made during the year and on each occasion it was found satisfactory and safe in all general arrangements.

M. W. BRELLAHAN, Supt.

L. W. RHODES, Mine Boss.

*THE LOW MOOR IRON COMPANY.*

Nos. 283 & 284. *Kay Moor Nos. 1 & 2 Mines*.—These mines are located on New River and on the South Side Branch of the C. & O. R. R. The developments in both mines are in the Sewell seam and on the double entry system. The No. 1 mine's ventilation is produced by a twenty foot Crawford and McCrimmon fan; the No. 2 mine's by a furnace. The roofing in both mines is good. The drainage fairly good.

Four regular inspections of both these mines were made during the year. At the time the first two inspections were made the ventilation was very moderate in the No. 1 mine on account of the fan having been burnt down. On all other occasions the ventilation together with all requirements for general safety, &c., were found in every respect satisfactory and all the requirements of the mining laws in general apparently observed and regularly enforced.

D. WEEKS, General Supt.

ELMER LESLIE, Mine Boss No. 1 Mine.

H. D. GAST, Asst. Supt.

J. W. RHODES, Mine Boss No. 2 Mine.

*CATARACT COAL & COKE CO.*

No. 285. *Cataract Mine*.—This operation is located on the South side of New River on the C. & O. R. R. The developments are in the Sewell

seam. The side tracks are graded, tipple and drum house and other necessary equipment are about completed.

GEO. KREBBS, Gen. Mgr.

#### MANUFACTURERS AND CONSUMERS COAL CO.

No. 286. *Newlyn Mine*.—This mine is located on New River on the main line of the C. & O. R. R. The developments are in the Sewell seam. The ventilation produced by a small furnace, which gives fairly good results as a general rule. The roof is moderately good except at local points: the drainage fairly good. Two inspections of this mine were made during the year and on each occasion all conditions in regard to general safety were found satisfactory and apparently all requirements of the mining laws reasonably observed.

EDWARD THOMAS, Gen Manager.

JOHN THOMAS, Mine Boss.

#### NUTTALLBURG C. & C. Co.

Nos. 287 & 288. *Nuttallburg and Keeney's Creek Mines*.—These mines are located on New River and on the C. & O. main line. The developments are in the Sewell seam and all work on the double entry system. Ventilation produced by a 16 foot Crawford and McCrimmon fan. These mines were visited and inspected on three occasions during the year and on each occasion were found in good order, satisfactory and apparently safe in every detail.

FRED RAVEN, Supt.

J. W. SMALL, Mine Boss, Keeney's Creek Mine.

J. W. TULLY, Mine Boss, Nuttallburg Mine.

#### BROWN COAL COMPANY.

No. 289. *Brown Mine*.—This operation is located on the south side of New River and on the C. & O. Railway. The developments are in the Sewell seam and on the double entry system. The ventilation is produced by a sixteen foot Crawford and McCrimmon fan and is good. The roof is good as a general rule, and all haulways are kept in good condition. The drainage is good. Four regular inspections were made during the year, and on each occasion the mine equipment and other appointments were found satisfactory.

JOHN BOONE, Gen. Manager.

WM. FULKS, Mine Boss.

#### BOONE COAL AND COKE COMPANY.

No. 290. *Boone Mine*.—This mine is located on Keeney's Creek on the Keeney's Creek Branch of the C. & O. R. R. The developments are in the Sewell seam, which at this place has been very thin for some time and the operation only worked on a small scale. The roof generally is good; the drainage in some sections poor; the ventilation, natural, and only moderate as a general rule. Three inspections were made during the year of this mine and on each occasion the conditions were about the same. The mining laws in regard to the use of proper oils and other requirements, &c., are apparently observed and regularly enforced.

FRANCIS A. BOONE, Supt

P. A. OHLINGER, Mine Boss.

**BALLINGER COAL AND COKE COMPANY.**

Nos. 290 & 291. *Ballinger Mines Nos. 1 & 2.*—These mines are situated on Keeny's Creek, a tributary of New River, and on the C. & O. Branch Road. The developments are in the Sewell seam and are principally conducted on the double entry system and ventilated by two small furnaces which, when conditions are favorable, give fairly good results. The roof is fairly good in both mines and is kept well timbered where necessary. The drainage is good in the No. 1 mine; in the No. 2 very moderate. These mines were inspected three times during the year and were found each time in a very good condition and apparently safe in all their appointments. The mining laws are also apparently observed.

GEORGE HOLLAND, Supt.

JOHN OHLINGER, Mine Boss.

**BLUME COAL AND COKE COMPANY.**

No. 292. *Blume Mine No. 1.*—This mine is located on Keeney's Creek and on the Keeney's Creek Branch Line of the C. & O. R. R. The operations are in the Sewell seam and the developments are conducted principally on the double entry system.

The ventilation is produced by a ten foot disc fan which gives very fair results. The roof is fairly good slate, and where necessary to be timbered on haulways it is carefully and regularly done. The drainage is good. Three inspections of this mine were made during the year and on each occasion the mine was found in good condition and apparently safe in every respect. The use of proper oils and other requirements of the mining laws in general are apparently observed.

D. W. BOONE, Supt.

THOS. STEAD, Mine Boss.

**SMOKELESS COAL COMPANY.**

No. 293. *Smokeless Mine.*—This mine is located on the Keeney's Creek Branch of the C. & O. R. R. The developments are in the Sewell seam and are conducted on the double and single entry systems combined. The ventilation is natural and on many occasions when the atmospheric conditions are unfavorable it is very moderate. The roof as a general rule is bad slate and cuts excessively on the entries and has to be carefully attended and properly timbered both on entries and on all working places. The grades are very irregular and the mine wet at almost every point. This causes it to be very difficult to drain the haulways properly and in many sections of the mine the roadways are to some extent muddy and wet. Every effort is made, however, to keep the mine in as good a condition as circumstances will allow. This mine was inspected on three occasions during the year and on each occasion the conditions and safety in general were found satisfactory. The mining laws in general are apparently observed.

JOHN D. CAMPBELL, Supt.

WM. HALL, Mine Boss.

**ROTHWELL COAL AND COKE COMPANY.**

Nos. 295 & 296. *Dubree and Quarrier Mines.*—These mines are located on the Keeney's Creek branch of the C. & O. R. R. The Dubree mine is the only one at present in operation. The Quarrier mine having been allowed to a certain extent to fill up with water during the strike and has not yet been pumped out.



Both these mines are developed on the double entry system. The ventilation is by furnace power and is fairly good. The roof is sandrock and good. There is very little water with which to contend, only enough to keep the roadways moist in some sections and in others the mine is moderately dusty. Three inspections of this mine were made during the year and on each occasion all arrangements were found in a very satisfactory condition and apparently safe from every standpoint. The mining laws in regard to the sale and use of proper oils and other requirements are apparently observed.

HERBERT ROTHWELL, Supt.

CHAS. HIGGINS, Mine Boss.

*VICTORIA COAL AND COKE COMPANY.*

Nos. 297 & 298. *North and South Caperton Mines.*—These mines are located on New River; No. 1 on the North and No. 2 on the South side. The operations are both in the Sewell seam. The ventilation in No. 1 or North side mine is produced by a small furnace and is moderately good. The roof is slate and in the greater portion of the mine is bad; near the surface soft and very unreliable and has to be carefully watched and properly timbered. The drainage in some sections is good, in others bad. The No. 2 or South Side mine is developed on the single and double entry systems combined and the ventilation produced by a 12 foot Crawford and McCrimmon fan which gives very satisfactory results where conditions are such that it has the opportunity to do so. The roof is slate and generally speaking is good. The drainage heretofore has always been very poor: changes however are now being inaugurated which will make a great improvement. These mines were inspected on four different occasions during the year and were found from a general standpoint apparently safe in every respect. The mining laws in regard to the sale and use of proper oils and other requirements were apparently observed.

FRED STEINBRECHER, Supt.

BEN SCHLINGER and JOSEPH CARR, Mine Bosses North Mine.

D. F. ELLIS, Mine Boss, South Mine.

*CHAPMAN IRON, COAL AND COKE COMPANY.*

No. 299. *Elverton or Klondike Mine.*—This operation is located on the South Branch of the C. & O. R. R. on New River. The developments are in the Sewell Seam and conducted principally on the double entry system. The ventilation is produced by a ten foot disc fan which gives very good results. The roof is slate and usually very good, and the general safety of all entries and working places fairly good. The mine makes very little water and the drainage is all that is required. Four regular inspections were made of this mine during the year at which periods the arrangements and conditions were found satisfactory and all mining law requirements apparently observed.

THOS. SUTTON and W. K. CUSTRED, Supts. JOHN LONG, Mine Boss.

*LONGDALE IRON COMPANY.*

No. 300. *Cliff Top Mine.*—This mine is located on Man's Creek, about 9 miles North of Sewell. The Sewell seam is operated. The developments are on the double entry system and the ventilation produced by furnace power. The coal is low and roof very bad slate. The drainage is mod-

erate. Two regular inspections were made of the mine during the year at which time all existing conditions in regard to the general safety of haulways and working places were found satisfactory and apparently all the requirements of the mining laws regularly observed.

D. W. GAST and J. A. M. TAPPIN, Supts. W. L. HERNDON, Mine Boss.

*PENNSYLVANIA & NEW RIVER COAL & COKE CO.*

No. 301. This operation is being opened on Big Fire Creek and the branch line is now being built to connect with the C. & O. R. R. main line at East Sewell. Tipples, drum house and other necessary improvements are now being installed. The developments are in the Fire Creek Seam and openings are now being made and pushed as fast as existing conditions will allow.

*THE NEW RIVER SMOKELESS COAL COMPANY.*

Nos. 302 & 303. *Cunard and Brooklyn Mines.*—These mines are located on New River and on the South Side Branch of the C. & O. R. R. The operations are in the Sewell Seam. Both mines are developed on the double entry system. The ventilation in the Cunard mine is natural and the existing conditions are such that usually it is fairly good. The roof is good and the general safety of the haulways and working places good; the drainage only moderate.

The Brooklyn mine's developments are also in the Sewell Seam and are conducted on the double entry system. The ventilation is produced by a ten foot fan which gives good results. The roof generally is good slate, and the safety of all haulways and working places good. The drainage in some sections of this mine is good and in other sections only fairly good. This company strictly enforces all mine law requirements and also observes closely all the requirements so far as it is individually concerned. Three regular inspections were made during the year to each of these mines.

JOHN LAING, Supt.

JOHN PERFATER, Mine Boss, Cunard Mine.

JAS. LAING, Mine Boss, Brooklyn Mine.

Nos. 304 & 305. *Rush Run and Red Ash Mines.*—These operations are located on New River and on the South Side Branch of the C. & O. R. R. The developments of both mines are in the Fire Creek Seam and are on the double and triple entry systems. The stoppings along the line of both main inlets are constructed of cement and stone. The ventilation in each mine is produced by an 11 foot Capell fan. The roof is slate and good in both mines. The drainage arrangements good in every respect. On the haulways there is ample room at almost every point to pass moving trains. The mining laws in every respect are regularly observed and rigidly enforced. All in all these are among the best kept plants in the district. Four inspections were made during the year to each mine.

F. HOWALD, Gen. Mgr.

JOHN LAING, Gen. Supt.

WM. LAING, Mine Boss, Rush Run Mine.

THOS. BANNISTER, Fire Boss, Rush Run Mine.

JAS. NESBIT, Mine Boss, Red Ash Mine.

G. HILDITCH, Fire Boss, Red Ash Mine.

Nos. 306 & 307. *Sun Slope and Shaft Mines.*—These mines are located on the Big Loup Creek Branch of the Chesapeake & Ohio Railroad. The developments are in the Sewell seam and conducted on the double and triple entry systems. The stoppings are usually built out of slate and mortar. The ventilation of these two mines is conducted jointly and is produced by a 12 foot Capell fan which gives excellent results. The roof is slate and good. The haulways for long distances are double tracked and at all points and on all haulways there is every provision of a reasonable character provided for men to step out of the way of moving trains. The drainage as a general rule is good. The mining laws in every respect are regularly observed and rigidly enforced. This in every respect is an up to date plant. Three regular inspections were made to each mine during the year.

JAS. LAING, Gen. Manager.

JAS. MARTIN, Mine Boss.

JOHN LAING, Gen. Supt.

JAS. McMILLAN, Fire Boss.

#### FIRE CREEK COAL AND COKE COMPANY.

No. 308. *Fire Creek Mine.*—This mine is located on New River and on the main line of the C. & O. R. R. It is one of the oldest on the river. The developments are in what is known as the Fire Creek Seam and this seam was first worked at this place and Quinimont. The operations are conducted partly double and single entry. The ventilation produced by a 16 foot Crawford and McCrimmon fan when necessary to run it. The conditions, however, are such that in hot or cold weather the ventilation from natural conditions is fully equal to the requirements. The roof is slate and good and the conditions as to general safety both on haulways and other workings are good. The mine is moderately dry and in some sections is somewhat dusty. The mining regulations in regard to the use of proper oils, timbering, &c., are apparently observed and every effort used to have workmen comply with the requirements also. Three regular inspections were made of this mine during the year.

G. H. CAPERTON, Supt.

ZEB ARRINGTON, Mine Boss.

#### ECHO COAL AND COKE COMPANY.

No. 309. *Echo Mine.*—This mine is located on New River and on the Main line of the C. & O. R. R. The operations are in the Fire Creek Seam. The developments are conducted on the double and single entry systems. This mine for some time past has been running on a much smaller scale than formerly. The ventilation is produced by a 12 foot Crawford and McCrimmon fan. On account, however, of the long distance the air currents have to travel combined with the condition of the mine in general brought about by squeezes, &c., the ventilation is very moderate. The roof is slate and on haulways and in working places where natural conditions exist the roof is good. There is not much water with which to contend. The mining laws are apparently observed except that no special rules have yet been adopted and posted. Two inspections of this mine have been made during the year. On the last occasion considerable changes were in progress on account of a severe squeeze having swept over all the advance work and shut it off.

JOSEPH BEURY and H. B. BEURY, Supts.

GEO. McDANIELS and W. C. ROWE, Mine Bosses.

## THURMOND COAL COMPANY.

Nos. 310 and 311. *Thurmond No. 1 & Erskine No. 2 Mines.*—These mines are located on New River and on the South Side Branch of the C. & O. R. R. The Thurmond No. 1 operations are in the Sewell Seam and are conducted on the double entry system: the ventilation is produced by an 8 foot disc fan when it is required. On many occasions, however, the conditions are such that natural ventilation is in every way equal to the requirements. The roof is slate and good. On some sections of the haulways there is abundance of room for refuge: on other sections, however, the sides are close and refuge holes further apart than the law allows. The drainage as a general rule is good.

The Erskine or No. 2 mine: the operations are in the Fire Creek Seam. The developments are conducted on the double entry system and ventilation produced temporarily by small furnaces. The roof is principally sandstone and good. The mine is moderately dry and in some sections dusty. The seam up to date has proved very irregular and at present the workings are up against a severe rock fault. Two inspections during the year were made of these mines and at each inspection the requirements in general of the mining laws were being apparently observed.

G. H. CAPERTON, Gen. Supt.

ROBT. BOYD, OTHO PRICE and B. F. DORSEY, Mine Bosses.

## BEURY COAL AND COKE COMPANY.

No. 312. *Stone Cliff Mine.*—This mine is located on New River and on the main line of the C. & O. R. R. The operations are in the Fire Creek Seam. The developments are conducted principally on the double entry system; the ventilation is produced by a furnace. The roof is slate and good; the drainage fairly good. Three inspections of this mine were made during the year and from personal observation and inquiries made I find that the mining laws in general are regularly observed and I also find the general safety of the mine, good.

J. H. BOYD, Gen. Supt.

PAT. McQUADE, Mine Boss.

## BIG BEND COAL CO.

No. 313. *Big Bend Mine.*—This mine is located on New River on the main line of the C. & O. R. R. The operations are in the Fire Creek Seam. For some time this concern has been run on a small scale and work has principally been robbing pillars and working out small pieces of coal at various points. The ventilation is natural and fairly good at all points where work is being done. The roof, generally speaking, is good and the haulways and working places in general apparently safe at every point. The drainage is good. Four inspections of this mine were made during the year, and it was found satisfactory..

ERNEST ECHOLS, Supt.

JOHN DEMPSEY, Mine Boss.

## BEECHWOOD COAL AND COKE COMPANY.

Nos. 314 & 315. *Beechwood Nos. 1 & 2 Mines.*—These operations are located on New River and on the main line of the C. & O. R. R. The devel-

opments are in the Fire Creek Seam and are conducted on the double and single entry systems combined. The ventilation is produced in the No. 1 mine occasionally by a 16 foot Crawford and McCrimmon fan. The conditions existing at this mine are such that the ventilation under certain atmospheric conditions is equal, if not better, natural, than the fan will produce. The roof is slate and fairly good. The main haul-ways are provided with passing points and from a general standpoint of safety are satisfactory and according to law. The drainage is moderate.

The No. 2 mine has only recently commenced to ship coal and the developments and all other work and equipment new and apparently safe in every detail. Three visits were made to these mines during the year and two inspections made at which times the conditions existing from a general standpoint of safety were found satisfactory.

C. C. BEURY, Gen. Mgr.

R. B. HANNA, Mine Boss.

#### ALASKA COAL & COKE COMPANY.

No. 316. *Alaska Mine*.—This mine is located on New River and on the main line of the C. & O. R. R. The operations are in the Fire Creek or Quinnimont seam. The developments are conducted on the double and single entry systems combined. The ventilation in this mine has been moderate for some time and in some sections actually bad, the air-ways having been blocked by water. The seam has also been very much intersected with slate rolls and makes it very difficult to keep the work in proper shape. The roof is slate and fairly good on haul-ways and rooms; the drainage poor. There is an 8 foot fan installed but owing to the conditions existing it has been of very little service.

Two inspections of the mine were made during the year at which times the general safety of the mine was good and the ventilation and drainage moderate.

GEO. LAWTON, Supt.

S. M. PETERS, Mine Boss.

#### NEW RIVER COLLIERY COMPANY.

No. 317. *Slater Mine*.—This mine is located on New River and on the main line of the C. & O. R. R., and the Sewell seam worked, this operation has been worked on a very small scale for some time and has occasionally stood idle for months. The developments have been conducted on any kind of a system that suited the conditions as they have come to hand. The seam for years has been so irregular and the grades encountered of such a nature that it has been a difficult problem as to what could be done. The concern has changed hands several times during the past few years. This mine was inspected on two occasions during the year at which time not more than 12 miners were employed.

J. H. BOYD, Supt.

RICH. SEYMOUR, Mine Boss.

#### EPHRAIM CREEK C. & C. CO.

Nos. 318 & 319. *Buffalo Mines Nos. 1 & 2*.—These mines are located on New River and on the main line of the C. & O. R. R. The developments of both mines are in the Fire Creek Seam and conducted on the double entry system: the ventilation is produced by an 8 foot disc fan which gives very good results. The roof is slate and good and the general safety

of all haul-ways is good. The drainage good. The mining laws in general are apparently observed and regularly enforced. Three inspections were made of these mines during the year at which periods the general safety of these mines was very satisfactory.

HENRY BROOKE, Supt.

PETE McQUADE, Mine Boss.

*HARVEY C. & C. CO.*

Nos. 320 & 321. *Harvey Mines Nos. 1 & 2.*—These mines are located on the Big Loup Creek Branch of the C. & O. R. R. The developments in both mines are in the Sewell seam and are conducted on the double entry system. The ventilation in both mines is produced by fan power, each mine having a 10 foot fan, which give good results. The roof is slate and as a general rule is fairly good and all haulways are kept in good order and sufficiently wide on main haulways for safe passage of moving trams. The drainage is also fairly good in both mines. These mines were visited and inspected three times during the year at which times the general safety of all haulways, ventilation and other conditions were found satisfactory and all mining laws apparently observed.

F. E. WALKER, Supt.

JAS. McCALLISTER, Mine Boss.

*PRUDENCE COAL COMPANY.*

No. 322. *Prudence Mine.*—This operation is located on the Big Loup Creek Branch of the C. & O. R. R. The developments are in the Sewell seam and are all conducted on the double entry system; the ventilation produced by a 10 foot disc fan and two furnaces. There are practically three separate mines and each mine's ventilation is good. The roof is slate and very moderate, which either has to be heavily timbered on all entries and in all rooms, or taken down on entries, which is often done to a thickness of from 12 inches to 4 feet. The drainage as a general rule is good. The mining laws in general are apparently observed and properly enforced. Four inspections were made during the year and on each occasion the conditions in general were found satisfactory.

H. A. MOSELY, Supt.

W. L. WILLIAMSON, Mine Boss.

JAS. WHITNEY, Asst. Mine Boss.

*STAR C. & C. CO.*

No. 323. *Star Mine.*—This mine is located on Big Loup Creek Branch of the C. & O. R. R. The operations are in the Sewell seam and the developments are conducted on the double entry system and the ventilation produced by a 12 foot Capell fan which gives first class results. This mine is in first class condition in every respect and the mining laws are carefully observed and rigidly enforced in every detail. This mine was inspected three times during the year and found very satisfactory in all appointments.

GEORGE W. JONES, Gen. Mgr.

DAVID EVANDOLL, Mine Boss.

*COLLINS COLLIERY COMPANY.*

Nos. 324 & 325. *Collins Mines Nos. 1 & 2.*—These two mines are located on the Big Loup Creek Branch of the C. & O. R. R. The developments are in the Sewell seam and are conducted on the double entry system. The

ventilation of each mine is produced by a 16 foot Crawford and McCrimmon fan and is good in both mines. Vast improvements have been made in these mines during the year of various kinds, and the ventilation, general safety of haul-ways and drainage in both these mines are in good condition.

Two inspections of these mines have been made during the year and on each occasion I found everything in good form and apparently safe.

GEORGE WOLF, Supt.

ADAM LINDLEY, Mine Boss.

#### WHIPPLE COLLIERY COMPANY.

No. 326. *Whipple Shaft Mine.*—This mine is located on the White Oak Branch of the C. & O. R. R., and was regularly inspected four times during the year. The operations are in the Sewell Seam and the developments are all conducted on the double entry system. The ventilation is conducted by a 15 foot Capell fan and is good at every point in the mine. The roof, generally speaking, is slate and good. All haulways, airways, &c., are kept in good condition and safe. The drainage is good. All machinery and shaft equipment are of the most substantial and up-to-date nature. The mining laws are rigidly observed and regularly enforced.

GEO. P. DANIELS, Supt.

ROBERT WATSON, Mine Boss.

W. S. PENMAN, Fire Boss.

#### McKELL COAL AND COKE COMPANY.

Nos. 327, 328, 329, 388 & 389. *Derryhale, Kilsyth, Oswald, Laura and Graham Mines.*—This group of mines is located on the Big Loup Creek Branch of the C. & O. R. R. All the developments are in the Sewell Seam and are on the double entry system. These mines were regularly inspected twice during the year. The ventilation is produced in the Derryhale Mine at present by an eight foot disc fan operated by a gasoline engine, which gives very good ventilation when in good order. However, for some reason this kind of power has never been reliable in this section and at this mine it has, as usual, been no exception. When my latest visit to this mine was made a new electric plant was being installed and the fan and haulage will in future be operated by electricity. The roofing in this mine is slate and very bad. It is, however, very carefully attended and properly timbered at all points on haulways and working places. The drainage is good and the safety and general condition of the mine very satisfactory.

The Kilsyth mine's ventilation is produced by a 12 foot Capell fan and is good. The roof is slate in some sections of the mine and sandstone in others, and generally speaking is good. The drainage is good, and the general condition in regard to equipment, safety, &c., is substantial and up-to-date in every respect and apparently safe in every detail.

Nos. 388 and 389. The Oswald Mine and the Graham Mine are ventilated temporarily by furnace power, and as yet are not largely developed, were found when inspected in a good condition from every standpoint. Oswald and Graham mines are in Raleigh county.

The Laura Mine is ventilated by furnace power; the roof slate and good; the drainage good. All equipment substantial and safe in every

respect. In all these mines the requirements of the mining laws are regularly observed and rigidly enforced.

THOS. NICHOLS, Gen. Supt.

Derryhale Mine—WM. ROBERTSON, Mine Boss.

Kilsyth—THOS. A. LEWIS, Sr., Mine Boss.

Oswald & Graham—JOHN HARLAND, Mine Boss.

Laura—A. L. NELSON, Mine Boss.

Laura—E. A. TREVOR, Supt.

#### DUNN LOOP COAL AND COKE COMPANY.

Nos. 330 and 331. *Dunloop Mines Nos. 1 & 2.*—These mines are located on the Big Loop Creek Branch of the C. & O. R. R. The developments are in the Sewell Seam and are conducted principally on the double entry system. The ventilation to some extent is conducted jointly, there being a 10 foot disc fan installed at the No. 2 mine.

The work in the No. 1 mine is all pillar work. The roof is slate principally and bad, which has to be regularly and carefully timbered. The drainage is also bad in general. This is largely caused by the caving of the roof near the outcrop where the pillars have been robbed out. Every care is apparently exercised to keep all the working places, haulways, &c., safe.

The No. 2 Mine's ventilation is fairly good and could be made much more satisfactory if the doors and stoppings were kept regularly in good repair and in proper form. This heretofore has not always been done. The roof is slate and generally bad and is usually taken down on main haulways, in some instances averaging in thickness from two to three feet. The drainage is fairly good. All machinery and general equipment substantial, in good repair, and the general safety of the mine good. The mining laws in general are apparently observed. Two regular inspections were made during the year.

JAS. MCGUFFIN, Gen. Supt.

PERRY GORMAN, Mine Boss, Mine No. 1.

JAS. WHITNEY, Mine Boss, Mine No. 2.

#### NEWLYN COAL AND COKE COMPANY.

No. 332. *Thomas Mine.*—This operation is located on the Big Loup Creek Branch of the C. & O. R. R. The developments are in the Fire Creek Seam. The sidetracks are being graded and the tibble, drum house and all other necessary equipment are being installed as rapidly as conditions will allow.

EDWARD THOMAS, Gen. Mgr.

#### DUNGLEN COAL & COKE CO.

No. 333. This operation is now being developed and is located at Thurmond on the Big Loup Creek Branch of the C. & O. The developments are at present in the Sewell seam, later on the Fire Creek seam will also be opened. Side tracks and plane are now being built, and opening made.

LEO SHAFFER, Gen. Mgr.



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**THE TURKEY KNOB C. CO.**

No. 334. *Turkey Knob Mine.*—This mine is located on Big Loup Creek Branch of the C. & O. R. R. The developments are in the Sewell Seam and on the double entry system. The ventilation is produced by a ten foot fan which gives very good results. The roof is partly slate and partly sandrock and principally good. The drainage, fairly good. Three inspections were made of this mine during the year and all arrangements were found in a satisfactory condition on each occasion, and the general safety of the mine good from every standpoint.

FRED D. SETTLE, Supt.

PETER WOLF and THOS. BOYD, Mine Bosses.

**MACDONALD COLLIERY COMPANY.**

No. 335. *Macdonald Mine.*—This operation is located on Big Loup Creek Branch of the C. & O. R. R. The developments are conducted on the double entry system and in the Sewell Seam. The ventilation is produced by an 8 foot high speed disc fan, which gives very good results. The roof is both sandstone and slate and, where slate, it is bad and has to be very carefully and substantially timbered. The drainage is fairly good. Three regular inspections were made of this mine during the year, at which times all conditions in regard to the general safety of the mine, the regular observance of all mining laws appertaining to the use of proper oils, passing room on haulways, &c., were found satisfactory and apparently observed.

SAMEL DIXON, Gen. Mgr.

V. A. MILLER, Mine Boss.

**SUGAR CREEK COAL & COKE COMPANY.**

No. 336. *Sugar Creek Mine.*—This mine is located on the Big Loup Creek Branch of the C. & O. R. R. The developments are in the Sewell Seam, and are conducted on the double entry system. The ventilation is produced by an 8 foot high speed disc fan, which gives fairly good results. The roof in this mine is slate principally and very moderate and has to be very carefully timbered on almost all haulways. On main haulways plenty of passing room is provided. The drainage as a general rule is very poor. All water has to be pumped out and this mine makes a good deal. Two regular inspections were made of this mine during the year, at which times the general safety of the mine was found good and all machinery and mechanical appliances in good repair and apparently safe in every respect.

SAM SMILEY, Supt.

F. RAINEY, Mine Boss.

**PRICE HILL COLLIERY COMPANY AND MT. HOPE COAL COMPANY.**

Nos. 337 and 338. These two operations have not yet started in earnest to develope. There has been some controversy over the right of way, which, I understand, has now been adjusted and the operations will in a short time be opened.

**WHITE OAK FUEL COMPANY.**

Nos. 339, 340, 341, 342 and 343. *Scarbro Nos. 1 & 2, Carlisle, Oakwood and Wingrove Shaft Mines.*—These are all shaft mines and are located on the

White Oak Branch of the C. & O. R. R. and are all operating in the Sewell Seam. The Scarbro Shafts Nos. 1 & 2 are 400 feet in depth and the developments are conducted on the double and triple entry systems. The ventilation is produced by a ten foot Bullitt fan, which gives fairly good results. The mine generates small quantities of explosive gas. The ventilation arrangements are kept in very good order. All stoppings on main ways being built out of slate or rock, and other stoppings in a substantial manner. The roof is principally slate, which is usually good, and ample room at regular intervals as prescribed by law is provided for passing moving trains. The drainage which is accomplished by steam and electric pumps is fairly good. All machinery in use and shaft equipment are of a substantial character and are kept in good repair. Five regular inspections were made of this mine during the year and the conditions existing from a general standpoint of safety were found satisfactory.

JOHN WILSON, Supt.

RALPH BRABBIN, Mine Boss.

FRED DIXON, Sr., Fire Boss.

The Carlisle Shaft is 440 feet in depth, and is developed on the double and triple entry systems and ventilation produced by the same style of fan as at Scarbro, and gives good results. The ventilation arrangements are also on the same principle. This mine also generates small quantities of fire damp. The roof in this mine is both slate and sandstone and usually very good. No machinery is yet used for haulage purposes. The haulways are, however, being arranged with ample passing room as required by law. The drainage which is accomplished with steam pumps is good. All machinery for hoisting, &c., is of the most substantial and up-to-date nature. The shaft equipment, however, is temporary as yet, but is substantial and safe. Four regular inspections were made during the year and the conditions existing from a general standpoint of safety were found good and reliable.

FRED DIXON, Jr., Supt.

WM. NESBIT, Mine Boss.

WM. DIXON, Fire Boss.

The Oakwood Shaft and known as No. 3 is 440 feet in depth and is being developed on the same principle as Scarbro and Carlisle Mines, and on account of faults encountered has only been very slightly developed. However a good seam has now been reached and the operations will now be pushed and the necessary equipment installed. The Wingrove Shaft is 200 feet in depth and has only recently reached the seam. Four regular inspections of these new mines were made during the year and on each occasion the arrangements both in regard to ventilation and all other requirements in use of a mechanical or in connection with the mining arrangements were found substantial and from a general standpoint of safety very satisfactory.

FRED DIXON, Jr., Supt.

Oakwood—WM. ELLISS, Mine Boss.

Wingrove Shaft—D. M. ROSSER, Master Sinker and Contractor.

#### STUART COLLIERY COMPANY.

Nos. 344, 345 & 346. *Parral Shaft & Drift Mines and Stuart Shaft Mine.*  
—These mines are located on the White Oak Branch of the C. & O. R. R.

The Parral Drift mine is developing the Eagle Seam, and has only recently commenced to ship coal.

The shaft is 658 feet in depth and has only recently commenced to develop the Sewell Seam. As yet all machinery in use is only temporary but substantial. Permanent hoisting engines, steam boilers, &c., are on the ground and are being installed.

The Stuart Shaft, which is 568 feet deep, is now developing the Sewell Seam on the double and triple entry systems. The ventilation is produced by a ten foot fan and is good. The equipment in use in connection with the hoisting arrangements is temporary but substantial. Permanent hoisting engines, head frames, &c., are being installed as rapidly as conditions will allow.

PHILIP DAVIS, Supt.

JOHN DAVIS, Mine Boss.

#### QUINNIMONT COAL COMPANY.

Nos. 347 & 348. *Big Q. and Lick Branch Mines.*—These mines are located on the Laurel Creek Branch of the C. & O. R. R. The operations are in the Fire Creek Seam. The developments are conducted on the single and double entry systems combined.

In both these mines the ventilation is natural. In the old or Big Q. Mine the ventilation is good, there being openings at almost every point. In the new mine known as Lick Branch, the ventilation in some sections is very poor and when inspected the entries were all more or less ahead of the air than the distance allowed by law. This will always occur where developments are made by the single entry system. The roof as a general rule is good and all haulways are kept in excellent order and apparently safe at all points, and the drainage is good.

Regular inspections were made of these mines during the year and at each inspection the mines were found in good order from a general standpoint of safety, and every requirement of the mining laws was apparently observed, except driving the entries.

C. C. BEURY, Gen. Mgr.

VICTOR E. SULLIVAN, Mine Boss.

C. B. HELWIG, Supt.

#### GLENDALE COLLIERY COMPANY.

No. 349. *Glendale Mine.*—This mine has been recently opened and is located on Laurel Creek. It commenced to ship coal during the past year. As yet the developments are small and are in the Fire Creek Seam. Two inspections of this operation were made during the year, and all arrangements found in a very satisfactory condition.

J. H. BOYD, Supt.

L. G. DOLLISON, Mine Boss.

#### ROBINS COAL COMPANY.

No. 350. *Robins Mine.*—This mine is located on Laurel Creek and the developments are in the Fire Creek Seam. The seam at this point has been a very uncertain quantity for several years, consequently the mining operations have been and are at present on a small scale. The ventilation is natural, the drainage moderate, the roof good, and all haulways, from a general standpoint of safety, good. This mine was inspected three times during the year and found satisfactory.

RICHARD HOWELLS, Gen. Supt and Mine Boss.

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**LAUREL CREEK COAL COMPANY.**

No. 351. *Laurel Creek Mine.*—This operation is located on Laurel Creek Branch of the C. & O. R. R. The developments are in the Fire Creek Seam and are conducted on the single and double entry systems combined. The ventilation is produced by a 10 foot Crawford and McCrimmon fan. On the main straight entries, which are driven double, the ventilation is fairly good. On the cross entries, however, which are principally single the heads of the entries are a considerable distance ahead of the air currents, a much farther distance than is allowed by the mining laws, and the ventilation is usually bad. This will always be the condition of affairs until double entry becomes a matter of compulsion by law. The roof is slate and principally good and all haulways are kept in good order and safe. The drainage is poor and the airways which also form the second openings are in many places impassable on account of large accumulations of water therein. Three inspections of this mine were made during the year and on each occasion the conditions as set forth above were found about the same.

ISAAC ROWE, Supt.

WM. CRICKMER, Mine Boss.

**GREENWOOD COAL & COKE COMPANY.**

Nos. 352 & 353. *Greenwood Mines Nos. 1 & 2.*—These mines are located on Laurel Creek on the Laurel Creek Branch of the C. & O. R. R. The operations are in the Fire Creek Seam. The developments are conducted on the double and single entry systems combined. The ventilation in the No. 1 mine is natural and is very poor in some sections and especially so on the cross entries where the single entry system is in operation. The roof is slate and is very good, except close to the outcrop. The haulways are kept in very good condition and from a general standpoint are apparently safe. The drainage in some entries is very poor.

The ventilation in the No. 2 mine is produced by a 12 foot disc fan and is fairly good, except at the heads of the single entries where it is almost an impossibility to keep it in a satisfactory condition when a number of men are employed. The roof is slate and good, the haulways in fairly good condition and kept safe and moderately free from loose slate or other obstructions on the sides, &c. The drainage is fairly good. There are several openings to both these mines as required by law. The mining laws as a general proposition are to all appearances regularly observed. These mines were inspected three times during the year and on each occasion the general safety of the mines was satisfactory.

WM. A. BROWN, Gen. Supt.

HENRY C. PETERS and WM. CRICKMER, Mine Bosses.

**HEMLOCK HOLLOW COAL CO. AND EXCELSIOR COLLIERY CO.**

Nos. 354 & 355. *Hemlock Hollow Mine and Excelsior Mine.*—These operations are located at the head of Laurel Creek on the Laurel Creek Branch of the C. & O. R. R. The developments are in the Fire Creek Seam. The Hemlock Hollow mine is being conducted on the double entry system. The ventilation is natural, the roof and the drainage good.

The Excelsior mine's developments are in the adjoining lease and are

conducted also on the double entry system. The roof and drainage are good. Both these mines have only been running a short time and all equipment is new and safe. These mines were visited and inspected three times during the year and on each occasion were found in a satisfactory condition.

W. A. BROWN, Supt.

A. J. BROWN, Mine Boss.

*W. P. REND.*

Nos. 356, 357, 358, 359 & 360. *Rend Mines Nos. 1, 2, 3, 4 & 5.*—This group of mines is located on the Arbuckle Branch of the C. & O. R. R. The developments of the Nos. 1 & 2 mines are in the Fire Creek Seam. The Nos. 3, 4 & 5 are in the Sewell Seam. All these operations are conducted on the double entry system. The ventilation is produced at each mine by a ten foot disc fan, which gives very good results. All ventilation arrangements in these mines are kept in excellent repair, all doors and stoppings are well attended and are regularly kept up. The roof in the Nos. 1 & 2 is slate and good. The roof in No. 3 is a very moderate slate and cuts very much on all entries and also to some extent in rooms and has to be very carefully attended and in some sections very strongly timbered. The No. 4 mine's roof is principally sandrock and good. The No. 5 mine's roof is slate but fairly good. In all these mines the haulways, airways, &c., receive close attention and are kept in a very good condition from every standpoint. The drainage is also fairly good at all points. These mines were regularly inspected on three different occasions during the year and on each occasion the conditions existing in each mine were found from a general standpoint very good and apparently safe in every detail.

G. A. WEIGER, Gen. Mgr.

I. N. SCHWITZER, Supt.

A. McDONALD, Mine Boss, Mine No. 1.

HENRY WESSELL, Mine Boss, Mine No. 2.

JOHN SHEARS, Mine Boss, Mine No. 5.

A. B. BLOSSER, Mine Boss, Mines Nos. 3 & 4.

*GAMACO C. & C. CO.*

No. 361. *Gamaco Mine.*—This mine is located on Gauley River on the Gauley Branch of the C. & O. R. R. The developments are in the No. 2 Gas Coal Seam and are conducted on the double entry system. The ventilation is produced by a small furnace which gives very good results, the developments being as yet small. The roof is principally sandrock and good. The drainage good. Two inspections were made of this mine during the year and on each occasion all conditions were found satisfactory.

MYRON C. CAMPBELL, Supt.

WAYNE BUMPUS, Mine Boss.

*DEITZ COLLIERY COMPANY.*

No. 362. *Deitz Mine.*—This mine is located on Gauley River and on the Gauley Branch of the C. & O. R. R. The developments are in the No. 2 Gas and Powellton Seams, and are conducted on the double entry system. These mines have only been opened a short time and as yet the ventilation is produced by a small furnace in each seam. The roof in both

seams as yet is principally sandrock and good, the mines moderately dry and drainage good. Two regular inspections were made during the latter part of the year on which occasions the conditions in regard to safety in general were good.

THEODORE DEITZ, Supt.

L. D. MORAN, Mine Boss.

#### LYNCHBURG COLLIERY CO.

No. 363. *Fayette Mine*.—This mine is located on Gauley River and on the Gauley Branch of the C. & O. R. R. The developments are in the No. 2 Gas Coal Seam, and are being conducted on the double entry system. This mine has been opened during the year. One regular visit was made to this operation and all arrangements were found in safe condition.

THEODORE DEITZ, Supt.

JOHN TASKER, Mine Boss.

#### NICHOLAS COUNTY.

##### BELL CREEK COAL CO.

No. 364. *Belva Mine*.—This operation is located on Twentymile Creek and on the Gauley Branch of the C. & O. R. R. The developments are in the Coalburg Seam, and are conducted on the double entry plan. The ventilation is produced by an 8 foot disc fan and is good. The roof is slate and good. The mine is moderately dry and drainage good. Two regular inspections were made of this mine during the year at which times the conditions in regard to general safety were good.

L. F. HESS, Supt.

C. G. WOODS, Mine Boss.

##### RAVEN COAL AND COKE CO.

No. 365. *Rock Camp or No. 8 Mine*.—This operation is located on Twentymile Creek. The developments are in the No. 2 Gas Coal Seam and are conducted on the double entry system. The ventilation is produced by furnace and is fairly good. The roof is slate and good, drainage moderate. This mine has not been operated regularly during the year and only one inspection was made at which time the condition in regard to general safety, &c., was found good.

C. C. SHARP, Gen. Mgr.

M. WELCH, Mine Boss.

##### CAMBRIA MINING COMPANY.

No. 366. *Cambria Mine*.—This operation is located on Bell Creek and on the Gauley Branch of the C. & O. R. R. The developments are in the Coalburg Seam, and are conducted on the double entry system. The ventilation is produced by furnace, and good. The roof is slate and fairly good, drainage good. This mine was inspected twice during the year and on each occasion was found in good order and apparently safe in every detail.

W. J. JONES, Gen. Supt.

JOHN JONES, Mine Boss.

##### MT. CARMEL COAL CO.

No. 367. *Mt. Carmel Mine*.—This operation is located on Bell Creek and on the Gauley Branch of the C. & O. R. R. The developments are in the Coalburg Seam and are conducted on the double entry system. The ventilation is produced by furnace power and is good. The roof and

drainage are also very good. This mine was inspected twice during the year and all arrangements found in a satisfactory condition and apparently safe in every respect.

J. E. ROBINSON, Supt.

C. GREEN, Mine Boss.

*NATIONAL COAL & COKE CO.*

No. 368. *National Mine*.—This operation is located on Bell Creek and on the Gauley Branch of the C. & O. R. R. The developments are in the Coalburg Seam, and what work has been done is on the double entry system. One visit was made to this operation at which time no railroad switch had yet been laid and the tippie and other improvements were not completed.

CHARLES JASPER, Gen. Mgr.

CLYDE WOOD, Mine Boss.

*ARMINIUS C. & C. CO.*

No. 369. *Arminius Mine*.—This operation is located on Bell Creek and on the Gauley River Branch of the C. & O. R. R. The developments are in the Coalburg Seam and will be conducted on the double entry plan. One visit was made to this operation, at which time no railroad switch had been laid. Tippie and other improvements were completed and ready to ship coal.

G. E. SMITH, Gen. Mgr.

*GREENDALE COLLIERY CO.*

No. 370. *Greendale Mine*.—This mine is located on Twentymile Creek and on the Gauley branch of the C. & O. R. R. This operation has not been working for some time and arrangements are now in progress and extensive improvements are being installed to start the works up again.

C. C. SHARP, Gen. Mgr.

**RALEIGH COUNTY.**

*THE NEW RIVER SMOKELESS COAL CO.*

Nos. 371, 372 & 373. *Royal and Lanark Nos. 1 & 2 Mines*.—The Royal mine is located on New River and on the Piney Branch of the C. & O. R. R. The developments are in the Fire Creek Seam, and are principally conducted on the double entry system. The ventilation is natural and only moderate as a general thing. The roof is slate and good. The haulways are kept in good condition. The drainage is fairly good and the mine in some sections dry. Two inspections were made of this mine during the year and the condition in regard to general safety was found good.

JOHN HOWALD, Gen. Supt.

CHAS. STOVER, Mine Boss.

The Lanark operations are located on Piney Creek and the developments are in the Fire Creek and Sewell Seams. The No. 1 mine's developments are in the Fire Creek and are conducted on the double entry system. As yet, however, this mine has not been very much developed on account of the seam being faulty and thin.

The No. 2 mine's developments are in the Sewell Seam and conducted on the double entry plan. The ventilation is produced at present by furnace and is good. The roof in some openings is very soft and bad, and in others good. The drainage moderate, the mine dips and makes

a considerable amount of water, with which it is very difficult to deal. The haulways are kept in very good condition and safe. Two regular inspections were made of these mines during the year at which time the general safety of the mine was very satisfactory.

JOHN LAING, Supt.

DAVID LAING, Mine Boss, No. 2 Mine.

M. McGUIRE, Mine Boss, No. 1 Mine.

#### RALEIGH COAL & COKE CO.

Nos. 374, 375, 376 & 377.—*Raleigh Mines Nos. 1, 2, 3 & 4.*—These mines are located on the Piney Branch of the C. & O. R. R. All the developments are in the Fire Creek Seam, and all conducted on the double entry system. The ventilation in each of these separate mines is produced by fan, there being a five foot high speed disc fan, operated by electricity for each mine. The ventilation in all these as a general rule is good at all points.

The roof in the Nos. 1 & 2 mines is slate, in some sections it is very good in other sections it is bad and very dangerous. The haulways and all working places are kept properly timbered and in a very good condition. These mines, Nos. 1 & 2, make considerable water and have poor drainage, the advance being to the dip and the general grades very irregular. Two regular inspections were made of these mines during the year at which times the general safety of the mines was good.

R. A. McCLURE, Supt.

EDWARD GORDON, Mine Boss.

The roof in the No. 3 mine is slate and bad in a large portion of the mine, there being a very dangerous draw slate ranging in thickness from six to ten inches, which has to be either properly timbered or taken down. The haulways are kept in a very good condition, the drainage is fairly good, and the grades fairly regular. The roof in the No. 4 mine is slate and sandstone and good all over the mine, the drainage moderate. Two regular inspections were made of these mines during the year and on both occasions the mines were found safe in every detail.

R. A. McCLURE, Supt.

ED. ZWILLING, Mine Boss.

#### WRIGHT COAL AND COKE COMPANY.

No. 378 & 379. *Wright Mines Nos. 1 & 2.*—These mines are located on the Piney Creek Branch of the C. & O. R. R. The developments are in the Fire Creek Seam and are conducted principally on the double entry system. The ventilation is produced by a small furnace and is very poor. The roof is slate and fairly good. The haulways are kept in good condition. The mine makes very small quantities of water and the drainage is fairly good. Two regular inspections of these mines were made during the year, on which occasions the ventilation was found poor. When my last inspection was made I was informed that a fan would be installed shortly, which is undoubtedly much needed. All other conditions in regard to the general safety of the mine were good.

GASTON CAPERTON, Supt.

WM. HURT, Mine Boss.

#### PINEY COLLIERY.

Nos. 380, 381 & 382. *Piney Mines Nos. 1, 2 & 3.*—These mines are lo-



cated on the Piney Branch of the C. & O. R. R. The developments of the Nos. 1 & 2 mines are in the Fire Creek Seam, and are on the double entry system. The ventilation is produced by two small furnaces and under present conditions is fairly good. The roof is slate and good. The mine makes considerable water and the drainage is poor, and grades very irregular.

The No. 3 mine's developments are in the Sewell Seam and are also on the double entry system. The ventilation is produced by a small furnace and is fairly good. The roof is slate and bad. The haulways have to be regularly timbered and carefully attended, which is apparently done. This mine is also wet and the drainage only moderate. These mines were regularly inspected twice during the year and found each time in fairly good condition from every standpoint in regard to general safety.

P. J. RILEY, Gen. Supt.

JOHN BURNS, Mine Boss, Nos. 1 & 2 Mines.

PAT McQUADE, Mine Boss, No. 3 Mine.

*STONEWALL C. & C. CO.*

Nos. 383, 384 & 385. *Stonewall Mines Nos. 1, 2 & 3.*—These mines are located on Piney Creek and on the Piney Branch of the C. & O. R. R. The developments of the Nos. 1 & 3 mines are in the Fire Creek Seam, and are conducted on the double entry system. The ventilation is produced by furnace. The No. 1 mine has been but very little developed on account of the seam being thin at this point.

The No. 3 mine is the latest development of this company and has only been in operation a short time. The roofing in both these mines is very good and all haulways are safe and the drainage good.

The No. 2 operation is in the Sewell Seam. All entries are driven double, and cross cuts holed every 100 feet or less as required by law. The roof is slate and dangerous but is regularly and properly posted, as the condition of all haulways when inspected would indicate. The drainage is moderate and the mine wet. Two regular inspections of these mines were made during the year and on each occasion the conditions existing in regard to the general safety of all three mines were found good.

F. M. LEE, Gen. Supt.

C. C. FULKS, Mine Boss.

*BECKLEY COAL & COKE CO.*

No. 386. *Beckley Mine.*—This operation is located on the Piney Creek Branch of the C. & O. R. R. The developments are in the Sewell Seam. A slope 300 feet in length and a shaft 70 feet in depth has been completed recently. Work will be conducted on the double entry system. The ventilation is produced by a fan, there being already a Sturtevant 10 foot fan installed ready for use when other connections are made. The tippie is completed, side-tracks graded, but the rails have not yet been laid to the tippie.

I. BECKEL, Gen. Mgr.

FRANK McHUGH, Mine Boss.

*MABSCOTT COAL & COKE CO.*

No. 387. *Mabscott Mine.*—This mine is located on the Piney Creek

Branch of the C. & O. R. R. The developments are in the Sewell Seam and are driven double entry. At all points the cross cuts are regularly driven every 100 feet. The air currents are created by a furnace and are very good. The roof is slate and fairly good. The mine makes small quantities of water at local points. The drainage from a general standpoint is good. The mine was inspected once during the year after the company commenced to ship coal, and was found in good condition and apparently safe from every standpoint.

J. O. McDOWELL, Gen. Supt.

M. R. WALKER, Mine Boss.

Logan county in all likelihood will become a great coal producing county in this district in a few years. Five new mines have been opened in Logan during the past year. In Mercer county, six new mines have been opened; McDowell, 5; and Mingo, 9; making 25 new mines opened in

this district during the past year. This district now has 146 openings requiring inspection.

There have been 96 accidents in this district, 40 fatal and 56 non-fatal. It affords me pleasure to report that the relations between the operators of this district and their employes have been harmonious throughout the year. The men are well housed and properly paid, so far as I can learn, and there is no dissatisfaction among them at the present time.

The oil used for illuminating in the mines of this district is furnished mostly by the Standard Oil Co., The A. G. Harbaugh Co., and the Charles H. Moore Co.

Tests have been made from samples furnished by these companies and I found that, with a pure cottonseed taken as a basis of 100, the samples gave a smoke test of 180.

The companies of this district that have not furnished me a map of their mines are: the Welch C. & C. Co., Imo and McClaren Mines of the Oregon C. Co., Davy Crockett C. & C. Co., Helena C. Co., Maher C. & C. Co., Vaughan C. & C. Co., Mohawk C. & C. Co., War Eagle C. Co., Star C. Co. and Cedar C. & C. Co.

In conclusion I am glad to say that I have met with cordial co-operation and assistance in the performance of my official duties from all with whom I have been thrown in contact, and I am especially grateful to you for your kindness and the many favors I have received during the past year.

Very truly yours,

S. S. COOPER,  
*Mine Inspector 4th District.*

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CONDITION OF THE MINES IN THE FOURTH MINING DISTRICT.  
S. S. COOPER, INSPECTOR.

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LOGAN COUNTY.

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MONITOR C. & C. CO.

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No. 390. *Monitor Mine.*—This mine was inspected once during the past year when the conditions in regard to safety were found to be good. The seam of coal operated is the Winifrede, which averages in thickness, 5 to 6 feet.

This mine will not be ready to ship coal until September or October.  
JOS. BARLOW, Supt. S. B. LAMBERT, Mine Boss.

MOUNTS FISHER COAL CO.

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No. 391. *Mounts Fisher Mine.*—This mine was inspected once during the past year when the conditions in regard to safety were found to be good. The seam of coal operated is Winifrede, which averages in thickness, 4 to 5 feet.

This mine will be ready to ship coal in October.  
S. C. FISHER, Supt.

DRAPER C. & C. CO.

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No. 392. *Draper Mine.*—This mine was inspected once during the past year; when the conditions in regard to safety were found to be good.

The seam of coal operated is Winifrede, which averages in thickness, 4 feet.

This mine will be ready to ship coal in October.

J. H. HOLDEN, Supt.

#### BIG CREEK COAL CO.

No. 393. *Big Creek Mine*.—This mine was inspected once during the past year when the conditions in regard to safety were found to be good. The seam of coal mined is Winifrede, which averages in thickness, 4 feet.

This mine will be ready to ship coal in October.

JOS. KITCHEN, Supt.

#### UNITED STATES COAL & OIL CO.

No. 394. *Island Creek Nos. 1 & 2 Mines*.—These mines were inspected once during the past year, when the conditions in regard to safety were found to be good. The seam of coal operated is Winifrede; which averages in thickness 5 to 6 feet of clean coal.

The roof is good, drainage good, ventilation perfect and general safety of all entries and rooms is good. Oil used meets the requirement of the law. Rules are posted at the mine.

This company will make its first shipment of coal in September.

E. P. MERRILL, Supt.

H. D. PENMAN, Mine Boss.

#### MCDOWELL COUNTY.

#### TIDEWATER COAL & COKE CO.

No. 395. *Tidewater Mine*.—This mine was regularly inspected four different times during the year when the conditions in regard to safety were found to be good. The coal mined at this place is Pocahontas Smokeless No. 3, which averages in thickness from 6 to 7 ft.

The roof is not good. Drainage good. Ventilation perfect and general safety of all rooms and entries is good. Oil used meets the requirements of the law. Rules posted at this mine. Door sare self-closing.

WM. STEEBERGEN, Supt.

SAM. CAMPBELL, Mine Boss.

THOMAS BOOTH, Fire Boss.

#### BOTTOM CREEK COAL & COKE CO.

No. 396. *Bottom Creek Mine*.—This mine was regularly inspected four times during the year when the condition in regard to safety was found good. The coal mined is Pocahontas Smokeless No. 3, which averages in thickness, 6 feet.

The roof is not good. Drainage is fair. Ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirement of the law. Rules are posted at this mine. Doors are self-closing.

SAMUEL PATTERSON, Supt.

JAMES COOPER, Mine Boss.

R. H. PRICE, Fire Boss.

#### PEERLESS COAL & COKE CO.

No. 397. *Peerless Mine*.—This mine was regularly inspected three dif-

ferent times during the year when the condition in regard to safety was found to be good. Coal mined is the Pocahontas Smokeless No. 3, which averages in thickness from 6 to 7 feet.

The roof is good after draw slate is taken down. Drainage is good. Ventilation is perfect, and general safety of all entries and rooms is good. Oil used meets the requirement of the law. Rules are posted at this mine. Doors are self-closing.

L. E. TIERNEY, Supt.

THOMAS WELDEN, Mine Boss.

O. SMITH, Fire Boss.

#### EMPIRE COAL & COKE CO.

No. 398. *Empire Mine*.—This mine was regularly inspected four times during the year when the condition in regard to safety was found to be good. The coal mined is the No. 3 Pocahontas Smokeless, which is from 5 to 6 feet thick. Roof is fair, drainage good, ventilation perfect, and the general safety of all entries and rooms is good. Oil used meets the requirement of the law. This mine is equipped with electric light on haulage way, and phone to all partings.

W. D. ORD, Supt.

THOS. BARRETT, Mine Boss.

#### SHAWNEE COAL & COKE CO.

No. 399. *Shawnee Mine*.—This mine was regularly inspected three times during the year when the condition in regard to safety was found good. The seam at this mine is the Pocahontas Smokeless No. 3 which averages in thickness 6 feet.

The roof is good after draw slate is taken down. Drainage moderate, ventilation good, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at this mine. All suggestions offered have been complied with.

P. P. FLANAGAN, Supt.

CHAS. COONEY, Mine Boss.

#### EUREKA COAL & COKE COMPANY.

No. 400. *Eureka Mine*.—This mine was regularly inspected three times during the year when the condition in regard to safety was found good. The seam at this mine is the Pocahontas Smokeless No. 3 which averages in thickness from 6 to 7 feet.

The draw slate in this mine is from 8 to 14 inches in thickness, the roof is good when this is taken down. Drainage is moderate, ventilation good and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine. Doors are self-closing.

L. E. TIERNEY, Supt.

C. C. HUGHES, Mine Boss.

#### PULASKI IRON CO.

No. 401. *Pulaski Mine*.—This mine was regularly inspected three times during the year when the condition in regard to safety was found good. The seam of coal at this mine is Pocahontas Smokeless No. 3, which averages in thickness 7 to 8 feet. The roof is good, drainage good, ventilation perfect and general safety of all entries and rooms is good. Oil used

meets the requirements of the law. Rules are posted at the mine. This mine is well equipped both for haulage and preparing coal.

C. E. F. BURNLEY, Supt.

J. M. SHANKS, Mine Boss.

*KEYSTONE COAL & COKE CO.*

No. 402. *Keystone Mine No. 1.*—This mine was regularly inspected four different times during the year when the condition in regard to safety was found good. The coal mined is the Pocahontas Smokeless No. 3 which averages in thickness 6 feet.

The roof in part of this mine is good, in parts draw slate is 8 to 14 inches thick, which is taken down. The ventilation is perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine. Doors are self-closing.

J. K. F. STEELE, Supt.

JOHN MURRAY, Mine Boss.

B. MEADOWS, Asst. Mine Boss.

GEORGE COOPER, Fire Boss.

No. 403. *Keystone Mine No. 2.*—This mine was regularly inspected three different times during the year when the condition in regard to safety was found to be good. The coal mined is the Pocahontas Smokeless No. 3 which averages in thickness 6 feet.

The roof is good, drainage fair, ventilation perfect and general safety of all entries and rooms is good. Oil used meets the requirement of the law. Rules are posted at the mine. Doors are self-closing.

J. K. F. STEELE, Supt.

GEORGE SMITH, Mine Boss.

GEORGE COOPER, Fire Boss.

*ALGOMA COAL & COKE CO.*

No. 404. *Algoma Big Four Mine.*—This mine was regularly inspected four different times during the year when the condition in regard to safety was found to be good. The seam of coal mined at this place is Pocahontas Smokeless No. 3, which averages in thickness from 6 to 7 feet. Roof is good after draw slate is taken down. Drainage moderate, ventilation good, and the general safety of all entries and rooms is good. Oil used meets the requirement of the law. Rules are posted at the mine. Doors are self-closing.

WM. BEURY, Supt.

JOHN STEWART, Mine Boss.

M. F. HENSLEY, Fire Boss.

No. 405. *Algoma Coaling Station.*—This mine was regularly inspected four times during the year when the condition in regard to safety was found to be good. The seam of coal mined is the Pocahontas Smokeless No. 3 which averages in thickness from 6 to 7 feet. Roof is good after draw slate is taken down. Ventilation is fair, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine. Doors are self-closing.

WM. BEURY, Supt.

LEVI BOLDEN, Mine Boss.

No. 406. *Algoma Piney Mine.*—This mine was regularly inspected four times during the year when the condition in regard to safety was

found to be good. The coal mined at this place is the Pocahontas Smokeless No. 3 which averages in thickness from 6 to 7 feet.

Roof is good when draw slate is taken down. Drainage is good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine. Doors are self-closing.

WM. BEURY, Supt.

JOHN STEWART, Mine Boss.

*GILLIAM COAL & COKE CO.*

No. 407. *Gilliam Mine*.—This mine was regularly inspected three times during the year when the condition in regard to safety was found to be good. The seam of coal mined is the Pocahontas Smokeless No. 3, which averages in thickness 4 to 5 feet. The roof is good, drainage is good, ventilation perfect, and the general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine. Doors are self-closing.

P. P. FLANAGAN, Supt.

FRANK McCLOSKEY, Mine Boss.

*ROLFE COAL & COKE CO.*

No. 408. *Rolfe Mine*.—This mine was regularly inspected three different times during the year when the condition in regard to safety was found to be good. The coal mined is the Pocahontas Smokeless No. 3, which averages in thickness 4 to 5 feet. The roof is good, drainage good, ventilation perfect, and general safety of entries and rooms is good. Oil used meets the requirements of the law. Rules are posted.

JAMES JONES, Supt.

JAMES C. CAMPBELL, Mine Boss.

*ROANOKE COAL & COKE CO.*

No. 409. *Roanoke Mine*.—This mine was regularly inspected three different times during the year when the conditions in regard to safety were found to be good. The coal mined is the Pocahontas Smokeless No. 3 which averages in thickness from 4 to 5 feet.

The roof is good, drainage good, ventilation good, and general safety of all entries and rooms is good. Oil used meets the requirement of the law. Rules are posted at this mine. Doors are self-closing.

WM. EASLEY, Supt.

SAM. FERRIS, Mine Boss.

*INDIAN RIDGE COAL & COKE CO.*

No. 410. *Indian Ridge Mine*.—This mine was regularly inspected four times during the year when the condition in regard to safety was found to be good. The coal mined at this place is the Pocahontas Smokeless No. 3, which averages in thickness 4 to 5 feet. Roof is good, drainage good, ventilation perfect, and general safety of all the entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine.

C. BOTSFORD, Supt.

F. AILIFF, Mine Boss.

*ARLINGTON COAL & COKE CO.*

No. 411. *Arlington Mine*.—This mine was regularly inspected three different times during the year when the condition in regard to safety



was found to be good. The coal mined at this place is the Pocahontas Smokeless No. 3, which averages in thickness 4 to 5 feet. The roof is good, drainage good, ventilation perfect, and the general safety of all the entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine. Doors are self-closing.

P. P. FLANAGAN, Supt.

JAS. COOPER, Mine Boss.

#### GREENBRIER COAL & COKE CO.

No. 412. *Greenbrier Mine*.—This mine was regularly inspected three different times during the year when the conditions in regard to safety were found to be good. This mine made the first shipment of coal in 1893, first shipment of coke in 1894. The seam of coal at this mine is the Pocahontas No. 3; it averages in thickness from 5 to 6 feet. The roof is good, good drainage, ventilation perfect, and the general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine.

JAIRUS COLLINS, Supt.

C. J. ATKINSON, Mine Boss.

#### MCDOWELL COAL & COKE CO.

No. 413. *McDowell Mine*.—This mine was regularly inspected three different times during the year when the condition in regard to safety was found to be good. This mine made the first shipment of coal in 1893; first coke shipment in 1894. The seam of coal mined at this place is Pocahontas Smokeless No. 3, which has a thickness of 5 feet.

Roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at this mine.

THOMAS COOPER, Supt.

JAMES DEVENNY, Mine Boss.

#### ASHLAND COAL & COKE CO.

No. 414. *Ashland No. 1 Mine*.—This mine was regularly inspected three different times during the year when the condition in regard to safety was found to be good. This mine made the first shipment of coal in 1893, first shipment of coke in 1894. The seam of coal mined is Pocahontas Smokeless No. 3, which averages in thickness 4 to 5 feet.

Roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirement of the law. Rules are posted at the mine.

EDWARD PHILLIPS, Supt.

HENRY WOODS, Mine Boss.

No. 415. *Ashland No. 2 Mine*.—This mine was regularly inspected three times during the year when the condition in regard to safety was found to be good. This mine is located about a mile from the No. 1 mine. The first shipment of coal was made in 1903, coke 1904.

The seam of coal mined is the Pocahontas Smokeless No. 3, which averages in thickness 5 to 6 feet. The roof is good, drainage good, ventilation fair, and the general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted.

EDWARD PHILLIPS, Supt.

FRANK GALLLAGHER, Mine Boss.

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CHEROKEE COLLIERY CO.

No. 416. *Cherokee Mine*.—This mine was regularly inspected three different times during the year when the condition in regard to safety was found to be good. This mine made the first shipment of coal in 1902, first shipment of coke in 1904. The seam of coal mined is the Pocahontas Smokeless No. 3, which averages in thickness 5 to 6 feet. Roof is good, drainage good, ventilation perfect, and the general safety of all entries and rooms is good. Oil meets the requirements of the law. Rules are posted, doors self-closing.

JAIRUS COLLINS, Supt.

ELLIS SHEETS and J. C. SAUNDERS, Mine Bosses.

## ELKRIDGE COAL &amp; COKE CO.

No. 417. *Elkridge Mine*.—This mine was regularly inspected four times during the year when the condition in regard to safety was found to be good. This mine made its first shipment in 1893.

The coal mined is the Pocahontas Smokeless No. 3, which averages in thickness 6 to 7 feet. The general condition of the roof in this mine is good when draw slate is taken down. Drainage is good, ventilation perfect, and the general safety of all entries and rooms is good. Oil used meets the requirement of the law. Rules are posted.

L. E. TIERNEY, Supt.

HAYES DALTON, Mine Boss.

## LYNCHBURG COAL &amp; COKE CO.

No. 418. *Lynchburg Mine*.—This mine was regularly inspected three different times during the year when the condition in regard to safety was found to be good. This mine made the first shipment of coal in 1891, first shipment of coke in 1891. Coal mined at this place is Pocahontas Smokeless No. 3, which averages in thickness 7 feet.

The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirement of the law. Rules are posted at the mine. During the past year this company has erected a new brick power and boiler house.

L. E. TIERNEY, Supt.

THOMAS FITZSIMMONS, Mine Boss.

## POWHATAN COAL &amp; COKE CO.

No. 419. *Powhatan Mine*.—This mine was regularly inspected four different times during the year when the condition in regard to safety was found to be good. This mine made the first shipment of coal in 1889, of coke in 1889. The coal mined is Pocahontas Smokeless No. 3, which averages in thickness 7 to 8 feet.

The roof is good, drainage good, ventilation perfect, and the general safety of all entries and rooms is good. Oil used meets the requirement of the law. Rules are posted at the mine. During the past year this company has erected a new brick power and boiler house, and is equipped with air compressors. This company will in future mine a large per cent of coal by air punching machines.

L. E. TIERNEY, Supt.

JOHN DALTON, Mine Boss.

JOHN LYNCH, Fire Boss.

*UPLAND COAL & COKE CO.*

No. 420. *Upland No. 1 Mine.*—This mine was regularly inspected four times during the year when the condition in regard to safety was found to be good. This mine made the first shipment of coal in 1891, and of coke in 1892. The coal mined is Pocahontas Smokeless No. 3, which averages in thickness 7 to 8 feet.

Roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted. Doors are self-closing.

J. J. LINCOLN, Supt.

JOHN GRANTHAM, Mine Boss.

No. 421. *Upland No. 2 Mine.*—This mine was regularly inspected four times during the year when the condition in regard to safety was found to be good. The coal mined is Pocahontas Smokeless which averages in thickness 6 to 8 feet.

The roof is good, drainage is good. Oil used meets the requirements of the law. Rules are posted at the mine.

J. J. LINCOLN, Supt.

F. C. ERNEST, Mine Boss.

*HOUSTON COAL & COKE CO.*

No. 422. *Houston Mine No. 1.*—This mine was regularly inspected three different times during the year when the condition in regard to general safety was found to be good. This mine made the first shipment of coal in 1888. Coal mined is the Pocahontas Smokeless No. 3, which averages in thickness 7 to 8 feet.

The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine. Doors are self-closing. During the past year this company has erected fifteen new dwelling houses. They have in use a \$10,000.00 water filter, which purifies the water at a cost of 1 7-10 cents per thousand gallons.

BENJ. LEWIS, Supt.

CHRIS. KERSHAW, Mine Boss.

No. 423. *Houston No. 2 Mine.*—This mine was regularly inspected three different times during the year, when the condition in regard to safety was found to be good. The coal mined at this place is Pocahontas Smokeless No. 3, which averages in thickness from 7 to 8 feet.

Roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine. Doors are self-closing.

BENJ. LEWIS, Supt.

JAMES MOORE, Mine Boss.

*CROZER COAL & COKE CO.*

No. 424. *Crozer No. 1 Mine.*—This mine was regularly inspected four times during the year when the condition in regard to safety was found to be good. The coal mined is Pocahontas Smokeless No. 3; which averages in thickness 7 to 8 feet. Roof is good, drainage moderate, ventilation perfect, and general safety of all entries and rooms is good.

Oil used meets the requirements of the law. Rules are posted at the mine. Doors are self-closing. During the past year this company com-

pleted a new steel tippie, which is equipped with the most improved machinery, and is the finest tippie in this district. It had been under construction for more than two years.

SAMUEL EVANS, Supt.

RICHARD BAILEY, Mine Boss.

No. 425. *Crozer No. 2 Mine*.—This mine was regularly inspected four times during the year when the condition in regard to safety was found to be good. The coal mined is Pocahontas Smokeless No. 3, which averages in thickness 7 to 8 feet. The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirement of the law. Rules are posted at the mine. Doors are self-closing.

SAMUEL EVANS, Supt.

GEORGE GUY, Mine Boss.

*TURKEY GAP COAL & COKE CO.*

No. 426. *Turkey Gap Mine*.—This mine was regularly inspected three different times during the year, when the condition in regard to safety was found to be good. The seam of coal mined is Pocahontas Smokeless No. 3, which averages in thickness 7 to 8 feet.

The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine. Doors are self-closing. During the past year this company erected a new power house, ten new dwelling houses, opened a new drift mouth and built new tram road to the tippie.

WM. McQUAIL, Supt.

J. P. JOHNSON, Mine Boss.

*NORFOLK COAL & COKE CO.*

No. 427. *Norfolk Mine*.—This mine was regularly inspected three different times during the year when the condition in regard to safety was found to be good. The coal mined is the Pocahontas Smokeless No. 3, which averages in thickness 7 to 8 feet. The roof is good, drainage good, ventilation perfect, and the general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine. During the year this company has completed one hundred new ovens, erected a new double tippie for the Norfolk and Angle mines, and has in use a new 25 foot fan.

JAMES JONES, Supt.

WILLIAM WALTERS and R. S. WHITEHEAD, Mine Bosses.

No. 428. *Angle Mine*.—This mine was regularly inspected three different times during the year when the condition in regard to safety was found to be good. This mine shipped the first coal and coke in 1893. Coal mined is Pocahontas Smokeless No. 3, which averages in thickness from 6 to 7 feet.

The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Doors are self-closing.

JAMES JONES, Supt.

WILLIAM WALTERS, Mine Boss.

SANDY WHITEHEAD, Asst. Boss.

No. 429. *Lick Branch Mine*.—This mine was regularly inspected four times during the year when the condition in regard to safety was found

to be good. This mine made the first shipment of coal and coke in 1890; the seam of coal mined is the Pocahontas Smokeless No. 3, which averages in thickness 7 to 8 feet.

Roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine. Doors are self-closing. All machinery was found in good condition.

JAMES JONES, Supt.

J. H. WOODYARD, Mine Boss.

No. 430. *Delta Mine*.—This mine was regularly inspected three different times during the year when the condition in regard to safety was found to be good. This mine made the first shipment of coal and coke in 1901. The seam of coal mined is Pocahontas Smokeless No. 3, which averages in thickness 7 to 8 feet.

The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted. Doors are self-closing.

JAMES JONES, Supt.

J. K. WHITEHEAD, Mine Boss.

#### SHAMOKIN COAL & COKE CO.

No. 431. *Shamokin Mine*.—This mine was regularly inspected three different times during the year when the condition in regard to safety was found to be good. This mine made its first shipment of coal and coke in 1888. The seam of coal mined is the Pocahontas Smokeless, which averages in thickness 7 to 8 feet.

The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted. Doors are self-closing.

JAMES JONES, Supt.

HARRY GILES, Mine Boss.

#### ELKHORN COAL AND COKE CO.

No. 432. *Elkhorn Mine*.—This mine was regularly inspected four different times during the year when the condition in regard to safety was found to be good. This mine made the first shipment of coal and coke in 1888. Coal mined is Pocahontas Smokeless No. 3, which averages in thickness 7 to 8 feet.

The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine. Doors are self-closing.

R. S. ORD, Supt.

L. B. HOLLIDAY, Mine Boss.

#### BIG FOUR COAL & COKE CO.

No. 433. *Big Four Mine*.—This mine was regularly inspected four times during the year when the condition in regard to safety was found to be good. The seam of coal mined is Pocahontas Smokeless No. 3, which averages in thickness from 4 to 5 feet.

Roof is good after draw slate is taken down. Drainage is moderate, ventilation good, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine. Doors are self-closing.

S. S. COFFMAN, Supt.

J. M. WATT, Mine Boss.

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*BIG SANDY C. & C. C. CO.*

No. 434. *Big Sandy Mine*.—This mine was regularly inspected three different times during the year when the condition in regard to safety was found to be good. The coal mined is Pocahontas Thin Vein or Tug River Smokeless, which averages in thickness 3 to 4 feet.

The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine. Doors are self-closing.

W. H. SMITH, Supt.

D. M. WOODY, Mine Boss.

*VAUGHAN C. & C. CO.*

No. 435. *Cambridge Mine*.—This mine was regularly inspected three different times during the year when the condition in regard to safety was found to be good. The coal mined is Pocahontas Thin Vein or Tug River Smokeless, which averages in thickness 3 to 4 feet.

The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine. Doors are self-closing.

J. R. VAUGHAN, Supt.

JAMES HALL and G. W. STEWART, Mine Bosses.

*DAVY CROCKETT C. & C. CO.*

No. 436. *Davy Crockett Mine*.—This mine was regularly inspected three different times during the year when the condition in regard to safety was found to be good. The coal mined is Pocahontas Thin Vein or Tug River Smokeless, which averages in thickness 3 to 4 feet.

Roof is good, drainage moderate, ventilation fair and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine. Doors are self-closing.

T. M. HALL and G. A. BARNETT, Supts.

M. KEYS and SID. YOST, Mine Bosses.

*TUG RIVER C. & C. CO.*

No. 437. *Tug River Mine*.—This mine was regularly inspected three different times during the year when the condition in regard to safety was found to be good. The coal mined is Pocahontas Thin Vein or Tug River Smokeless, which averages in thickness 3 to 4 feet. Roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirement of the law. Rules are posted at the mine.

W. H. SMITH and W. WOOD, Supts.

THOS. WOODY, Mine Boss.

*TWIN BRANCH MINING CO.*

No. 438. *Twin Branch Mine*.—This mine was regularly inspected three different times during the year when the condition in regard to safety was found to be good. The coal mined is Pocahontas Thin Vein or Tug River Smokeless, which averages in thickness 3 to 4 feet.

Roof is good, drainage moderate, ventilation perfect, and general

safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine.

J. E. RHODEMYRE, Supt.

JAMES McBRAYER, Mine Boss.

*SHORT CREEK C. & C. CO.*

No. 439. *Short Creek Mine.*—This mine was regularly inspected three different times during the year when the condition in regard to safety was found to be good. The coal mined is Pocahontas Thin Vein or Tug River Smokeless, which averages in thickness 3 to 4 feet.

Roof is good, drainage good, ventilation fair, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine.

C. E. ANGEL, Supt.

THOMAS DAUGHERTY, Mine Boss.

*POCAHONTAS COLLIERIES CO.*

No. 440. *Poca. West Mine.*—This mine was regularly inspected three different times during the year when the condition in regard to safety was found to be good. This mine made the first shipment of coal and coke in 1883. The coal mined is Pocahontas Smokeless No. 3, which averages in thickness 8 to 10 feet.

The entries of this mine that are in McDowell are Richland, France, England, Ireland and Wales. The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine. Doors are self-closing.

WM. LECKIE, Supt.

WILLIAM WARBURTON and M. COX, Mine Bosses.

*ANTLER C. & C. CO.*

No. 441. *Antler Mine.*—This mine was regularly inspected three different times during the year when the condition in regard to safety was found to be good. Coal mined is Pocahontas Thin Vein or Tug River Smokeless, which averages in thickness 3 to 4 feet.

Roof is good, drainage good, ventilation fair, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine. Doors are self-closing.

J. W. THOMAS, Supt.

J. F. FLEEMAN, Mine Boss.

*CLETUS C. & C. CO.*

No. 442. *Cletus Mine.*—This mine was regularly inspected three different times during the year when the condition in regard to safety was found to be good. The coal mined is Pocahontas Thin Vein or Tug River Smokeless, which averages in thickness 3 to 4 feet.

Roof is good, drainage moderate, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine.

W. B. HONAKER, Supt.

J. H. BRAGG, Mine Boss.

*BLACK STONE MINING CO.*

No. 443. *Blackstone Mine.*—This mine was regularly inspected three different times during the year when the condition in regard to safety

was found to be good. The coal mined is Pocahontas Thin Vein or Tug River Smokeless, which averages in thickness 3 to 4 feet.

Roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine.

R. B. HONAKER, Supt.

S. S. HARRIS, Mine Boss.

UNITED STATES C. & C. CO.

No. 444. *U. S. Mine No. 1.*—This mine was regularly inspected three different times during the year when the condition in regard to safety was found to be good. The coal mined is Pocahontas Smokeless No. 3, which averages in thickness 5 to 6 feet. This mine made the first shipment of coal in 1902. Roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good.

Oil used meets the requirements of the law. Rules are posted at the mine.

J. R. B. REIS, Gen. Supt.

J. F. DILLON, Mine Boss.

No. 445. *U. S. No. 2 Mine.*—This mine was regularly inspected three different times during the year when the condition in regard to safety was found to be good. The coal mined is Pocahontas Smokeless No. 3, which averages in thickness 6 to 7 feet.

Roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine.

During the past year this company erected a new tippie, installed electric haulage, and have under construction the foundation for a 16 foot Capell fan.

J. R. B. REIS, Gen. Supt.

MICHAEL CONNELLY, Mine Boss.

P. J. TORMAY, Supt.

No. 446. *U. S. No. 3 Mine.*—This mine was regularly inspected three different times during the year when the condition in regard to safety was found to be good. There are four openings at this mine, I. & J., M. & L. The seam of coal mined is Pocahontas Smokeless No. 3, which averages in thickness 5 to 6 feet.

The roof is good, drainage moderate, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine. This Company has under construction a new 16 foot Capell fan.

J. R. B. REIS, Gen. Supt.

W. C. MULLAN, Supt. B. ASBURY and WM. DEVENNY, Mine Bosses.

No. 447. *U. S. No. 4 Mine.*—This mine was regularly inspected two different times during the year when the condition in regard to safety was found to be good. The coal mined is Pocahontas Smokeless No. 3 which averages in thickness 5 to 6 feet.

The roof of this mine is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine.

J. R. B. REIS, Gen. Supt.

ALBERT LILLY, Mine Boss.

C. L. MESTREZAT, Supt.



No. 448. *U. S. No. 5 Mine*.—This mine was regularly inspected two different times during the year when the condition in regard to safety was found good. The coal mined is Pocahontas Smokeless No. 3, which averages in thickness 5 to 6 feet.

The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine.

J. R. B. REIS, Gen. Supt.

M. GILLESPIE, Mine Boss.

C. L. MESTREZAT, Supt.

No. 449. *U. S. No. 6 Mine*.—This mine was regularly inspected two different times during the year when the condition in regard to safety was found good. The seam of coal mined is Pocahontas Smokeless No. 3, which averages 5 to 6 feet.

The roof is good, drainage moderate, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine.

J. R. B. REIS, Gen. Supt.

W. F. WHITT, Mine Boss.

W. C. MULLAN, Supt.

No. 450. *Grapevine Shaft*.—This mine was opened during the winter of 1903; the first shipment of coal was made in March, 1904. The seams of coal mined are Pocahontas Smokeless Nos. 3 and 4, which average in thickness 6 to 7 feet.

Roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine. During the past year this company erected a new steel tibble, built new stone power and boiler house, and have under construction foundation for a new 16 foot Capell fan.

J. R. B. REIS, Gen. Supt.

I. J. MULLINS, Mine Boss.

W. C. MULLAN, Supt.

#### MAHER C. & C. CO.

No. 451. *Maier Mine*.—This mine was regularly inspected three different times during the year when the condition in regard to safety was found good. The coal mined is Pocahontas Thin Vein or Tug River Smokeless which averages in thickness 3 feet.

The roof is good, drainage moderate, ventilation fair, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine.

EDWARD RHODEMYRE, Supt.

I. J. WHITE, Mine Boss.

#### FLOURNOY COLLIERY CO.

No. 452. *Flournoy No. 1 Mine*.—This mine was regularly inspected three different times during the year when the conditions in regard to safety were found to be good. The seam of coal mined is Pocahontas Thin Vein or Tug River Smokeless, which averages in thickness 3 feet.

The roof of this mine is good, drainage good, ventilation perfect, and

general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine.

C. O. SMITH, Supt.

M. J. BROGAN, Mine Boss.

No. 453. *Flournoy No. 2 Mine*.—This mine was regularly inspected three different times during the year when the condition in regard to safety was to be found good. The coal mined is Pocahontas Thin Vein or Tug River Smokeless, which averages in thickness 3 to 4 feet.

The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine. Doors are self-closing.

C. O. SMITH, Supt.

J. R. WHITE, Mine Boss.

#### HENSLEY COAL CO.

No. 454. *Hensley Mine*.—This mine was regularly inspected three different times during the year when the condition in regard to safety was found good. The coal mined is Pocahontas Thin Vein or Tug River Smokeless which averages in thickness 3 to 4 feet.

The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted. Doors are self-closing.

C. O. SMITH, Supt.

M. W. HYRON, Mine Boss.

#### MOHAWK C. & C. CO.

No. 455. *Mohawk Mine*.—This mine was regularly inspected three different times during the year when the conditions in regard to safety were found to be good. This mine operates the Big Eagle seam of coal, which averages in thickness 5 to 6 feet.

Roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine. Doors are self-closing.

C. BOTSFORD and W. E. MINTER, Supts.

SAMUEL BECKER and E. E. BLANKENSHIP, Mine Bosses.

#### WELCH C. & C. CO.

No. 456. *Welch No. 1 Mine*.—This mine was regularly inspected three different times during the year when the condition in regard to safety was found good. The seam of coal operated is Pocahontas Thin Vein or Tug River Smokeless, which averages in thickness 3 feet.

The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Deficiencies at this mine are: No rules posted; stretchers and blankets are not on hand.

CHARLES DEVENNY, Supt.

WM. DEVENNY, Mine Boss.

No. 457. *Welch Coaling Station or Hemphill Mine*.—This mine was regularly inspected three different times during the year when the condition in regard to safety was found to be good. The coal mined is Pocahontas Thin Vein or Tug River Smokeless, which averages in thickness 3 feet.

The roof of this mine is good, drainage good, ventilation perfect, and

the general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine.

CHARLES DEVENNY, Supt.

M. A. HEARLEY, Mine Boss.

OREGON COAL CO.

No. 458. *Imo Mine*.—This mine was regularly inspected three different times during the year when the conditions in regard to safety were found to be good. This mine operates the seam of coal known as Pocahontas Thin Vein or Tug River Smokeless, which averages in thickness 4 feet.

The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. As yet no rules have been posted.

W. J. McCLAREN and F. J. BAXTER, Supts.

J. L. MILLER, Mine Boss.

No. 459. *McClaren Mine*.—This mine was regularly inspected two different times during the year when the condition in regard to safety was found good. The coal mined is Pocahontas Thin Vein or Tug River Smokeless, which averages in thickness 3 feet.

The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. As yet no rules are posted.

J. F. BAXTER, Supt.

C. B. WEBB, Mine Boss.

ZENITH C. & C. CO.

No. 460. *Zenith Mine*.—This mine was regularly inspected two different times during the year when the condition in regard to safety was found to be good. The coal mined is Pocahontas Smokeless No. 3, which averages in thickness 4 to 5 feet. This mine was opened in 1903, and made the first shipment of coal in 1904.

The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine.

JAMES BUCHANNON, Supt.

THOMAS CARNEY, Mine Boss.

PAGE C. & C. CO.

No. 461. *Page Mine*.—This company expects to make its first shipment of coal in October, 1904, when the tippie will be completed. This company has under construction 200 coke ovens, power and boiler house and 100 dwelling houses.

W. PAGE, Supt.

MIDDLE STATES C. CO.

No. 462. *U. G. Shaft Mine*.—This mine was regularly inspected three different times when the condition in regard to safety was found to be good. The seam of coal operated is Pocahontas Smokeless No. 3, which averages in thickness 5 feet.

Roof is good, drainage moderate, ventilation good. This company is building a new tippie, sinking air shaft, and erecting a new 16 foot Capell fan.

GEORGE MARTIN and GEO. GULLY, Supts. and Mine Bosses.

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**HELENA COAL CO.**

No. 463. *Helena Mine*.—This mine was regularly inspected two different times during the year when the condition in regard to safety was found good. The coal mined is Pocahontas Thin Vein or Tug River Smokeless which averages in thickness 2 to 3 feet.

The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. As yet no rules are posted.

HENRY RETZE and C. W. KEISTER, Supts.

FRED. STILSTER and WILEY KEMP, Mine Bosses.

**KING C. CO.**

No. 464. *King Mine*.—This mine was regularly inspected two different times during the year when the conditions in regard to safety were found good. The coal mined is Pocahontas Smokeless No. 3, which averages in thickness 5 to 6 feet.

The roof is good, drainage moderate, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine.

This company is erecting 30 new dwelling houses, and 100 new coke ovens.

WM. STEEBERGEN, Supt.

WM. STEEBERGEN, Mine Boss.

**MERCER COUNTY.****MILL CREEK C. & C. CO.**

No. 465. *Mill Creek Mine*.—This mine was regularly inspected three different times during the year when the condition in regard to safety was found good. This mine operates the seam of coal known as Pocahontas Smokeless, which averages in thickness 7 to 10 feet clean coal. The first shipment was made in 1884.

The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine.

THOMAS COOPER, Supt.

GEORGE SMITH, Mine Boss.

No. 466. *West Side Mine*.—This mine was regularly inspected three different times during the year when the condition in regard to safety was found good. The coal mined is Pocahontas Smokeless, which averages in thickness 7 to 10 feet.

The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine.

THOMAS COOPER, Supt.

WM. PETITT, Mine Boss.

No. 467. *Coaldale Mine*.—This mine was regularly inspected three different times during the year when the condition in regard to safety was found good. This mine operates the Pocahontas Smokeless seam, which averages in thickness 7 to 9 feet. The first shipment of coal was in 1890. Roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules posted at the mine.

THOS. COOPER, Supt.

THOS. WILLIAMS, Mine Boss.

**BUCKEYE C. & C. CO.**

No. 468. *Buckeye Mine*.—This mine was regularly inspected three different times during the year when the condition in regard to safety was found good. This mine operates the Pocahontas Smokeless seam, which averages in thickness 5 to 6 feet. The first shipment of coal was made in 1886. The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine.

JOHN PACK, Supt.

THOS. GENT, Mine Boss.

**CASWELL CREEK C. & C. CO.**

No. 469. *Elkhorn Mine*.—This mine was regularly inspected three different times during the year when the condition in regard to safety was found good. This mine operates the Pocahontas Smokeless seam, which averages in thickness 7 to 8 feet. This company made its first shipment of coal in 1884. The roof of the mine is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine. Doors are self-closing.

JAMES JONES and W. G. FREEMAN, Supts.

THOMAS BRAZIL, Mine Boss.

No. 470. *Hemlock Mine*.—This mine was regularly inspected three different times during the year when the conditions in regard to safety were found to be good. The coal mined is Pocahontas Smokeless, which averages in thickness 7 to 8 feet.

The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine. Doors are self-closing.

JAS. JONES, Supt.

FRANK SMITH, Mine Boss.

**BOOTH-BOWEN C. & C. CO.**

No. 471. *Reliance or Booth-Bowen Mine*.—This mine was regularly inspected three different times during the year when the condition in regard to safety was found good. This mine operates the Pocahontas Smokeless seam, which averages in thickness 7 to 8 feet. This company made its first shipment of coal in 1885.

The roof of the mine is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine. Doors are self-closing.

HENRY BOWEN, Supt.

JAS. MITCHELL, Mine Boss.

**LOUISVILLE C. & C. CO.**

No. 472. *Louisville Mine*.—This mine was regularly inspected three different times during the year when the condition in regard to safety was found good. This mine operates the Pocahontas Smokeless seam, which averages in thickness 4 to 5 feet. This company made its first shipment of coal in 1888.

The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine. Doors are self-closing.

JAIRUS COLLINS, Supt.

WM. ADAMS, Mine Boss.

*GOODWILL C. & C. CO.*

No. 473. *Goodwill Mine*.—This mine was regularly inspected three times during the year when the condition in regard to safety was found to be good. The seam of coal mined is Pocahontas Smokeless, which averages in thickness 4 to 5 feet. This company made the first shipment of coal in 1887.

The roof of the mine is good, drainage moderate, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine.

PHILIP GOODWILL, Supt.

S. B. FOY, Mine Boss.

*AMERICAN C. CO.*

No. 474. *Pinnacle Mine*.—This mine was regularly inspected three different times during the year when the conditions in regard to safety were found good. This mine operates the Pocahontas Smokeless seam, which averages in thickness 4 to 5 feet. This company made its first shipment of coal in 1892.

The roof of the mine is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine.

CALVIN SHOCKEY, Supt.

JAMES DEWISE, Mine Boss.

No. 475. *Crane Creek No. 1 Mine*.—This mine was regularly inspected three different times during the year when the condition in regard to safety was found good. The coal mined is Pocahontas Smokeless which averages in thickness 4 to 5 feet. This company made its first shipment of coal in 1902.

The roof of the mine is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine.

CALVIN SHOCKEY, Supt.

BENJ. CORDILL, Mine Boss.

No. 476. *Crane Creek No. 2 Mine*.—This mine was regularly inspected three different times during the year when the condition in regard to safety was found good. The coal mined is Pocahontas Smokeless, which averages in thickness 4 to 5 feet.

The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine.

CALVIN SHOCKEY, Supt.

H. FRANKENFIELD and J. P. JOHNSON, Mine Bosses.

*SAGAMORE C. & C. CO.*

No. 477. *Sagamore Mine*.—This mine was regularly inspected three different times during the year when the condition in regard to safety was found good. This mine operates the Pocahontas Smokeless seam,

which averages in thickness 4 to 5 feet. This company made its first shipment of coal in 1902.

The roof of the mine is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine. Doors are self-closing.

S. M. BUCK, Supt.

T. C. DOOLEY, Mine Boss.

CRYSTAL C. & C. CO.

No. 478. *Crystal Mine*.—This mine was regularly inspected three different times during the year when the condition in regard to safety was found good. The seam of coal mined is Pocahontas Smokeless, which averages in thickness 4 to 5 feet. This company made its first shipment of coal in 1902.

The roof of the mine is good, drainage moderate, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine. Doors are self-closing.

L. M. BUFORD, Supt.

H. J. REED, Mine Boss.

THE THOMAS C. CO.

No. 479. *Thomas Mine*.—This mine was regularly inspected three different times during the year when the condition in regard to safety was found good. This mine operates the Pocahontas Smokeless seam, which averages in thickness 4 to 5 feet. This company made its first shipment of coal in 1902.

The roof of the mine is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine. Doors are self-closing.

W. J. PRITCHARD, Supt.

HARRY TAYLOR, Mine Boss.

YUKON COAL CO.

No. 480. *Yukon Mine*.—This mine was inspected twice during the year, but no certificates have been issued. The number of men employed inside and outside of the mine is six.

Deficiencies at this mine are: No rules posted, stretchers and blankets not on hand, miners burn mixed and inferior oils.

HENRY LEE and H. M. MEYERS, Supts.

HENRY LEE and G. W. BELL, Mine Bosses.

THE WEYANOKE C. & C. CO.

No. 481. *Weyanoke Mine*.—This mine was inspected once during the past year when the condition in regard to safety was found good. The seam of coal mined is Pocahontas Smokeless, which averages in thickness 4 feet. This Company made its first shipment of coal in July, 1904.

The roof of the mine is good, drainage good, ventilation fair, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine.

C. T. STAR, Supt.

JAMES HUGHES and LAWRENCE SHEPARD, Mine Bosses.

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*SPRING COAL MINING CO.*

No. 482. *Spring Mine*.—This mine is located at Widemouth, seven miles above the town of Cyphus. The seam of coal operated is Pocahontas Smokeless, which averages in thickness 4 to 5 feet.

The first shipment of coal will be made in October.

D. H. BRADFORD and W. S. COPE, Supts.

JAS. BAHANON and WM. COOK, Mine Bosses.

*PIEDMONT COLLIERY.*

No. 483. *Piedmont Mine*.—This mine is located on a branch of the N. & W. R. R. eight miles above the town of Cyphus. The coal mined is Pocahontas Smokeless, which averages in thickness 4 to 5 feet.

This company will make its first shipment of coal in October.

JAIRUS COLLINS, Gen Mgr.

M. J. SAUNDERS, Mine Boss.

E. C. BERKLEY, Supt.

*WENONAH C. & C. CO.*

No. 484. *Wenonah Mine*.—This mine is located seven miles above the town of Cyphus, on a branch of the N. & W. R. R. The coal mined is Pocahontas Smokeless, which averages in thickness 4 feet.

The first shipment of coal will be made in October.

D. H. BARGER, Gen. Mgr.

WM. WINIFREE, Mine Boss.

*HIAWATHA C. & C. CO.*

No. 485. *Hiawatha Mine*.—This mine is located eight miles above the town of Cyphus, on a branch of the N. & W. R. R. The seam of coal operated is Pocahontas Smokeless, which averages in thickness 4 feet.

This company will make its first shipment of coal in October.

D. H. BARGER, Gen. Mgr.

WM. WINIFREE, Mine Boss.

*THE SMOKELESS C. & C. CO.*

No. 486. *Smokeless Mine*.—This mine is located eight miles above the town of Cyphus, on a branch of the N. & W. R. R. The seam of coal operated is Pocahontas Smokeless, which averages in thickness, 4 feet.

This company will make its first shipment of coal in October.

D. H. BARGER, Gen. Mgr.

*MINGO COUNTY.**PEARL COAL MINING CO*

No. 487. *Camp Branch Mine*.—This mine was regularly inspected three different times during the year when the condition in regard to safety was found good. The coal mined is Gas coal, which averages in thickness 4 feet.

The roof is good, drainage moderate, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine.

JAS. BOOTH, Supt.

A. MITCHELL, Mine Boss.



No. 488. *Pearl Mine*.—This mine was regularly inspected three different times during the year when the conditions in regard to safety were found good. The coal mined is Gas coal, which averages in thickness 4 feet.

The roof is good, drainage moderate, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine.

JAS. BOOTH, Supt.

JOHN KERNS, Mine Boss.

No. 489. *Alma, Mingo or Sprigg Mine*.—This mine was regularly inspected three different times during the year when the condition in regard to safety was found good. The coal operated is known as Thacker, which averages in thickness 4 feet.

The roof is good, drainage moderate, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine.

JAS. BOOTH, Supt.

JOHN MURPHY, Mine Boss.

*RED JACKET C. & C. CO.*

No. 490. *Rutherford Mine*.—This mine was regularly inspected three different times during the year when the conditions in regard to safety were found good. This mine operates the Thacker seam of coal, which averages in thickness 4 feet.

The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine.

HENRY BOOKE and C. O. JONES, Supts.

JAS. ATKINS, Mine Boss.

No. 491. *Maritime Mine*.—This mine was regularly inspected three different times during the year when the condition in regard to safety was found good. The seam of coal mined is Thacker, which averages in thickness 4 to 5 feet.

The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine.

S. T. LAMBERT, Supt.

JAS. MAYNARD, Mine Boss.

No. 492. *Red Jacket (& Logan) Mine*.—This mine was regularly inspected three different times during the year when the condition in regard to safety was found good. This mine operates the Thacker seam of coal, which averages in thickness 4 to 5 feet.

The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine.

HENRY BROOKE and C. O. JONES, Supts.

THOS. PUGH, Mine Boss.

No. 493. *Lick Fork Mine*.—This mine was regularly inspected three different times during the year when the conditions in regard to safety were found good. This mine operates the Thacker seam of coal, which averages in thickness 6 feet.

The roof is good, drainage good, ventilation perfect, and general safety

of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine.

S. T. LAMBERT, Supt.

W. R. WILBUR, Mine Boss.

*GRAPEVINE COAL CO.*

No. 494. *Grapevine Mine*.—This mine was regularly inspected three different times during the year when the conditions in regard to safety were found good. This mine operates the Thacker seam of coal, which averages in thickness 6 to 11 feet.

The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine.

S. T. LAMBERT, Supt.

J. B. JOHNSON, Mine Boss.

*THACKER C. & C. CO.*

No. 495. *Thacker Mine No. 1*.—This mine was regularly inspected three different times during the year when the conditions in regard to safety were found good. The seam of coal mined is Thacker, which averages in thickness 6 to 7 feet. The roof is good, drainage moderate, ventilation perfect, and general safety of all entries and rooms is good.

Oil used meets the requirements of the law. Rules are posted at the mine.

THOS. GRIFFITH, Supt.

C. C. WILLIAMS, Mine Boss.

No. 496. *Thacker Mine No. 2*.—This mine was regularly inspected three different times during the year when the conditions in regard to safety were found good. The seam of coal operated is Thacker, which averages in thickness 6 to 9 feet.

The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine.

THOS. GRIFFITH, Supt.

JAS. GENT, Mine Boss.

No. 497. *Thacker Mine No. 3*.—This mine was regularly inspected three different times during the year when the conditions in regard to safety were found good. The seam of coal mined is Thacker, which averages in thickness 6 feet.

The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine.

THOS. GRIFFITH, Supt.

T. A. BUFORD, Mine Boss.

No. 498. *Island Creek Mine*.—This mine was inspected once during the past year when the conditions in regard to safety were found good. The seam of coal mined is Thacker, which averages in thickness 6 to 8 feet.

The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. This company will not be ready to ship coal until October when it will have the tipple and railroad completed.

THOS. GRIFFITH, Supt.

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LYNN C. & C. CO.

No. 499. *Lynn Mine*.—This mine was regularly inspected three different times during the year when the conditions in regard to safety were found good. The coal mined is Thacker, which averages in thickness 4 feet.

The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine.

THOS. GRIFFITH, Supt.

TILDEN VARNEY and A. J. YOUNCE, Mine Bosses.

## GLEN ALUM COAL CO.

No. 500. *Glen Alum No. 1 Mine*.—This mine was regularly inspected three different times during the year when the condition in regard to safety was found good. The coal mined is Thacker which averages 6 feet of clean coal.

The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine.

CHAS. JONES, Supt.

C. A. WORDEN, Mine Boss.

No. 501. *Glen Alum No. 2 Mine*.—This mine was regularly inspected three different times during the year when the condition in regard to safety was found good. The seam of coal operated is Thacker which averages in thickness 6 feet.

The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine.

CHAS. JONES, Supt.

W. T. CRUM, Mine Boss.

## NOLAN COAL CO.

No. 502. *Nolan Mine*.—This mine was regularly inspected three different times during the year when the condition in regard to safety was found good. The seam of coal operated is Kittanning, which averages in thickness 2 to 3 feet.

The roof is good, drainage moderate, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine.

W. M. SMITH and B. MOORE, Supts.

A. MITCHELL, Mine Boss.

## WAR EAGLE COAL CO.

No. 503. *War Eagle Mine*.—This mine was regularly inspected three different times during the year when the condition in regard to safety was found good. The coal mined is Kittanning, which averages in thickness 4 to 5 feet.

The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine.

GEORGE COFFEE, Supt.

J. K. COFFEE and W. J. WILLIAMS, Mine Bosses.

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**HATFIELD COLLIERY CO.**

No. 504. *Hatfield Mine*.—This mine was regularly inspected three different times during the year when the condition in regard to safety was found good. The seam of coal mined is Kittanning, which averages in thickness 3 to 4 feet.

The roof is good, drainage moderate, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine.

W. J. McCLAREN and JOHN E. WILLIAMS, Supts.

J. R. BLANTOM, Mine Boss.

**JACKSON COAL CO.**

No. 505. *Jackson Mine*.—This mine was regularly inspected three different times when the conditions in regard to safety were found good. The coal mined is Kittanning, which averages in thickness 3 feet.

The roof is good, drainage moderate, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine.

J. F. MITCHELL, Supt.

J. F. MITCHELL, Mine Boss.

**MATE CREEK COAL CO.**

No. 506. *Mate Creek Mine*.—This mine was regularly inspected three different times during the year when the condition in regard to safety was found good. The coal mined is Thacker, which averages in thickness 4 feet.

The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine.

S. SHEIN, Supt.

WM. FARNE, Mine Boss.

**MARVIN COAL CO.**

No. 507. *Marvin Mine*.—This mine was regularly inspected three different times during the year when the condition in regard to safety was found good. The seam of coal operated in Thacker, which averages in thickness 3 to 4 feet.

The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine.

J. A. WILLIAMS, Supt.

GEO. WILLIAMS, Mine Boss.

**PAPPOOSE COAL CO.**

No. 508. *Pappoose Mine*.—This mine was regularly inspected three different times during the year when the condition in regard to safety was found good. The seam of coal operated is Lower Kittanning, which averages in thickness 5 feet.

The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine.

GEORGE COFFEY, Supt.

J. K. COFFEY, Mine Boss.

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**MARGARET MINING CO.**

No. 509. *Margaret Mine*.—This mine was regularly inspected three different times during the year when the condition in regard to safety was found to be good. The seam of coal operated is Lower Kittanning, which averages in thickness 5 to 6 feet.

The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine.

H. DANGERFIELD and GEO. W. COFFEY, Supts.

GEO. MOORE and GEO. MONTGOMERY, Mine Bosses.

**STAR C. CO.**

No. 510. *Star Mine*.—This mine was regularly inspected three different times during the year when the condition in regard to safety was found good. The seam of coal operated is Lower Kittanning, which averages in thickness 5 to 6 feet.

The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine.

W. A. HEARST and GEO. W. COFFEY, Supts.

SIDNEY DAY and JOHN COFFEY, Mine Bosses.

**CEDAR C. & C. CO.**

No. 511. *Cedar Mine*.—This mine was regularly inspected two different times during the year when the condition in regard to safety was found to be good. The seam of coal operated is Lower Kittanning, which averages in thickness 3 to 4 feet.

The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine.

A. M. MITCHELL, Supt.

R. C. MITCHELL, Mine Boss.

**MERRIMAC COAL & COKE CO.**

No. 512. *Merrimac Mine*.—This mine was regularly inspected three different times during the year when the condition in regard to safety was found to be good. The seam of coal operated is Lower Kittanning, which averages in thickness 4 to 5 feet.

The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine.

W. J. McCLAREN and JOHN E. WILLIAMS, Supts.

JOHN McGUIRE and C. A. McCOY, Mine Bosses.

**WILLIAMSON C. & C. CO.**

No. 513. *Williamson Mine*.—This mine was inspected once during the past year when the conditions in regard to safety were found good. The seam of coal operated is Lower Kittanning, which averages in thickness 4 feet. The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine.

W. T. POOLE, Supt.

LEE ATKINSON, Mine Boss.

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*GOODMAN C. & C. CO.*

No. 514. *Goodman Mines Nos. 1 & 2.*—These mines were inspected once during the past year when the conditions in regard to safety were found good. The seam of coal operated is Winifrede, which averages in thickness 5 feet. The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good.

Oil used meets the requirements of the law. Rules are posted at the mine.

R. D. BALDWIN, Supt.

R. D. BALDWIN, Mine Boss.

*HOWARD COLLIERY CO.*

No. 515. *Howard Mine.*—This mine was inspected once during the past year when the conditions in regard to safety were found to be good.

The seam of coal mined is Winifrede which averages in thickness 6 feet. The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good.

Oil used meets the requirements of the law. Rules are posted at the mine.

F. L. SCHOEW, Supt.

JNO. RUEGET, Mine Boss.

*CHATTAROY COAL CO.*

No. 516. *Chattaroy Mine.*—This mine was inspected once during the past year when the conditions in regard to safety were found good. The seam of coal operated is Winifrede which averages in thickness 5 to 6 feet.

The roof is good, drainage good ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine.

C. E. TABOR, Supt.

J. HACKWOOD, Mine Boss.

*THE BUFFALO COLLIERIES CO.*

No. 517. *Buffalo Mine.*—This mine was inspected once during past year when the condition in regard to safety was found good. The seam of coal operated is Winifrede, which averages in thickness 5 to 6 feet.

The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine.

S. D. PRESTON, Supt.

S. D. PRESTON, Mine Boss.

*RAWL COAL & COKE CO.*

No. 518. *Rawl Mine.*—This mine was inspected once during the past year when the conditions in regard to safety were found good. The seam of coal operated is Lower Kittanning, which averages in thickness 4 feet.

The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Oil used meets the requirements of the law. Rules are posted at the mine.

H. C. JONES, Supt.

A. S. JONES, Mine Boss.

## PIKE COUNTY, KENTUCKY.

*BLACKBERRY C. & C. CO.*

No. —. *Blackberry Mine*.—This mine is located on the Kentucky side in Pike County. The company is building its tipple on the West Virginia side. This mine will operate the Thacker seam of coal, which averages in thickness 6 to 7 feet.

WM. HEATHERMAN, Supt.

WM. HEATHERMAN, Mine Boss.

*VOLCUM COAL CO.*

No. —. *Volcum Mine*.—This mine was regularly inspected three different times during the year when the conditions in regard to safety were found good. The seam of coal operated is Thacker which averages in thickness 5 to 6 feet.

The roof is good, drainage good, ventilation perfect, and general safety of all entries and rooms is good. Rules are posted at the mine.

A. D. RICE, Supt.

S. LAMBERT, Mine Boss.

*BORDER LINE COLLIERY CO.*

No. —. *Border Line Mine*.—This mine is located on the Kentucky side in Pike County. The tipple is built on the West Virginia side.

This mine operates the Lower Kittanning seam of coal, which averages in thickness 4 feet.

CHAS. ADAMS, Supt.

CHAS. ADAMS, Mine Boss.

## FIFTH DISTRICT.

GENERAL SUMMARY OF THE FIFTH DISTRICT FOR THE  
YEAR ENDING JUNE 30, 1904.

| COUNTY.      | Number of Openings. | EMPLOYEES.   |                 |                            |           |        |           |               |        | No. of Men Killed. | PRODUCTION.                     |                                |              |
|--------------|---------------------|--------------|-----------------|----------------------------|-----------|--------|-----------|---------------|--------|--------------------|---------------------------------|--------------------------------|--------------|
|              |                     | Inside.      |                 |                            |           |        | Outside.  |               |        |                    | Coal<br>(tons of<br>2,240 lbs.) | Coke<br>(tons of<br>2,000 lbs) |              |
|              |                     | Pick Miners. | Machine Miners. | Machine Runners & Helpers. | Laborers. | Total. | Laborers. | Coke Workers. | Total. |                    |                                 |                                |              |
|              |                     |              |                 |                            |           |        |           |               |        |                    |                                 |                                | Grand Total. |
| Barbour....  | 15                  | 315          | 248             | 59                         | 150       | 772    | 113       | 15            | 128    | 900                | 5                               | 690,897                        | 19,128       |
| Grant.....   | 4                   | 42           | 106             | 22                         | 38        | 206    | 36        | ...           | 36     | 241                | 2                               | 113,969                        | .....        |
| Mineral..... | 14                  | 480          | .....           | .....                      | 56        | 536    | 73        | .....         | 73     | 609                | 2                               | 467,613                        | .....        |
| Preston..... | 20                  | 439          | 467             | 108                        | 212       | 1,226  | 173       | 78            | 246    | 1,472              | 7                               | 689,139                        | 27,611       |
| Randolph.... | 8                   | 386          | 10              | 4                          | 72        | 472    | 67        | 76            | 143    | 615                | ...                             | 356,551                        | 77,077       |
| Taylor.....  | 6                   | 233          | 25              | 3                          | 77        | 338    | 66        | ...           | 66     | 404                | ...                             | 234,502                        | .....        |
| Tucker.....  | 11                  | 545          | 109             | 20                         | 284       | 958    | 88        | 175           | 263    | 1,221              | 9                               | 1,067,758                      | 221,801      |
| Totals....   | 78                  | 2,440        | 962             | 216                        | 889       | 4,507  | 616       | 339           | 955    | 5,462              | 27                              | 3,590,409                      | 345,617      |

## OFFICE OF THE FIFTH DISTRICT MINE INSPECTOR.

ELM GROVE, W. VA., Aug. 8th, 1904.

HON. JAMES W. PAUL,

Chief Mine Inspector,

Charleston, W. Va.

SIR:—I herewith respectfully submit for your consideration my annual report on the condition of the mines in the Fifth District for the year ending June 30th, 1904.

During the year I made two hundred and ninety-five visits to the different mines in the District, of which visits two hundred and eleven were regular inspections and eighty-four were to inquire into the causes of accidents and other matters.

I am pleased to report that, with few exceptions, the conditions of the mines are improved.

I regret to state, however, that during the year there have been forty-two accidents in the District, thirty of which have been fatal and twelve non-fatal. I have endeavored to investigate all fatal accidents when possible and upon investigation I found fully ninety per cent. of the accidents due to carelessness of employes in working under loose slate and coal, and in handling explosives.

There has been a great deal of new development in the district during the past year. The following new mines have been opened and commenced to ship coal by June 30th, 1904: Lewis-Findley and Beech Bottom Mines in Brooke County; Century Drift Mine in Barbour County; Weaver No. 3 Mine in Randolph County; the Wabash and Oakdale Mines



in Mineral County; the Buffalo Creek Mine in Grant County, and Irondale No. 2 in Preston County. The new mines that have not as yet commenced to ship coal are the Wellsburg in Brooke and the three shafts of the Glen Easton C. & C. Co. in Marshall County; and the Pennsylvania Mine in Barbour County.

A comparison of the different types of mining machines in use in the different machine mines in the District will show the chain cutter to be best adapted in the No. 8 or Pittsburg Vein and the compressed air machines of the puncher type in the Freeport and Kittanning seams.

The year closed with a general reduction in the price of mining from five to fifteen per cent. General dullness, with little demand and poor prices, marked the close of the year, especially is this true of the coke trade, more than half of the ovens in the District being out of blast.

Considerable part of the new development that was commenced in the spring of 1903 has been temporarily stopped.

In conclusion I wish to thank the miners and operators of the District for the many courtesies received at their hands, and to thank you for the advice and assistance rendered which has been fully appreciated upon my part.

Trusting that the coming year will be a more prosperous one for both operator and miner, I am,

Yours very truly,

JERRY WESTLAKE,  
*Mine Inspector 5th District.*

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#### CONDITION OF THE MINES IN THE FIFTH MINING DISTRICT.

JERRY WESTLAKE, INSPECTOR.

##### BARBOUR COUNTY.

##### DAVIS COLLIERY CO.

No. 519. *Junior Mine.*—This mine was regularly inspected three different times during the year and the conditions in regard to safety were found fairly good.

Deficiency at this mine is: present fan is too small to ventilate properly all parts of the mine. The Company has been promising to install a larger fan. Drainage is good in all parts of the mine. A coking plant of 51 Beehive ovens is operated in connection with this mine. A blue print copy of mine map showing workings extended to August 1st, 1903, has been furnished this office.

Rules are posted, blankets and stretchers kept on hand, and a good quality of oil for illuminating purposes was found being used.

A. C. FINLEY, Supt.

WILLIAM CANADY and H. C. HASKINS, Mine Bosses.

##### PHILIPPI COAL MINING CO.

Nos. 520, 521 & 522. *Philippi Mines Nos. 1, 2, 3 & 4.*—These mines were regularly inspected three different times during the year when the condi-

tions in regard to safety were found good. Drainage and ventilation are good throughout the mines. Rules were posted, blankets and stretchers kept on hand, and a fair quality of oil for illuminating purposes was found in use.

A copy of mine map extended to January, 1904, has been furnished this office.

LEE SANDRIDGE, Supt.

WALTER MATHEWS and G. B. MYERS, Mine Bosses.

*TYGARTS RIVER COAL CO.*

No. 523. *Arden Mine*.—This mine was regularly inspected three different times during the year, when the conditions in regard to safety were found good. Drainage and ventilation good throughout the mine. Rules were posted, blankets and stretchers kept on hand, and a good quality of oil for illuminating purposes was found in use.

The date of last copy of mine map furnished this office is February, 1903.

JOHN ROWLAND, Supt. and Mine Boss.

*THE SOUTHERN COAL & TRANSPORTATION CO.*

No. 524. *Berryburg Mine*.—This mine was regularly inspected three different times during the year when the conditions in regard to safety were found fairly good.

Drainage and ventilation in some parts of the west pit were not as good as they might be. Rules are posted, and blankets and stretchers kept on hand. Some miners and day hands were found burning a very inferior quality of oil for illuminating purposes. The law in regard to the amount of powder a miner should take into the mine was not being enforced at this mine.

A copy of mine map extended to April, 1903, has been furnished this office.

L. W. SMITH and R. D. EDWARDS, Supts.

JOHN McDONALD and THOMAS SMITH, Mine Bosses.

B. B. PLASTER, Fire Boss.

*LAUREL CREEK COAL CO.*

No. 525. *Laurel Creek Mine*.—This mine was regularly inspected three different times during the year, when the conditions in regard to safety were found good.

Drainage and ventilation good throughout the mine. Rules are posted, blankets, and stretchers kept on hand, and a good quality of oil for illuminating purposes was found in use.

A copy of mine map extended to February, 1903, has been furnished this office.

W. S. BRYDON, Supt.

J. H. RITTER, Mine Boss.

*THE CENTURY COAL CO.*

No. 526. *Century Shaft*.—This mine was regularly inspected three different times during the year when the conditions in regard to safety were found good. Rules were posted, blankets and stretchers kept on

hand, and a good quality of oil for illuminating purposes was being used. Ventilation and drainage good throughout the mine.

An explosion, in which three men lost their lives, occurred in this mine on the morning of November 24th, 1903, a detailed account of which will be found elsewhere.

A map showing mine workings extended to July 1st, 1904, has been furnished this office.

J. C. WARD, Supt.

EDWARD WILLIAMS, Mine Boss.

A. B. McMURDO, Fire Boss.

No. 527. *Century Drift*.—This is a new mine that has been opened within the last year. It is located two miles north of the shaft opening of the same company, and is a drift mine in the Red Stone Coal, which varies in height at this place from 5½ to 6½ feet. The roof is hard gray slate and is good. Little water is generated, drainage is good. Ventilation for the present is produced by small furnace, which furnishes sufficient air for the number of men employed. It is the intention of the management to install a fan at this mine. Rules are posted, blankets and stretchers kept on hand, and a good quality of oil for illuminating purposes was being used.

A copy of mine map showing workings extended to July 1st, 1904, has been furnished this office.

J. C. WARD, Supt.

P. WOODS, Mine Boss.

#### VALLEY C. & C. CO.

No. 528. *Valley Mine*.—This mine was regularly inspected three different times during the year when the conditions in regard to safety were found good. Ventilation and drainage good. Rules are posted, blankets and stretchers kept on hand, and a good quality of oil for illuminating purposes was found in use.

A map showing mine workings extended to June 30th, 1903, has been furnished this office.

F. A. COLEMAN, Supt.

CHARLES CRONK, Mine Boss.

#### FREEPORT SMOKELESS COAL & COKING CO.

No. 529. *Lillian Mine*.—This mine has been closed down the greater part of the year. Only one inspection was made, when the conditions in regard to safety were found good. Ventilation and drainage fair. Rules are posted, blankets and stretchers kept on hand, and a good quality of oil for illuminating purposes was found being used.

A map showing mine workings extended to June 30th, 1903, has been furnished this office.

W. A. COX, Supt. and Mine Boss.

#### PENNSYLVANIA C. & C. CO.

No. 530. *Pennsylvania Mine*.—This is a new mine with drift opening in the Upper Freeport seam that has been opened within the last year. A switch has not as yet been secured from the railroad company. Had headings driven seven or eight hundred feet on last visit. Coal at this

mine varies in thickness from  $6\frac{1}{2}$  to  $7\frac{1}{2}$  feet, with a sand stone roof. The coal appears to be badly cut up with faults, in some places, pinching the coal entirely out. No map of this mine has as yet been furnished this office.

HARRY WETZEL, Supt.

EDMOND PEARSON, Mine Boss.

*CANDACE C. & C. CO.*

No. 531. *Candace Mine*.—This mine has been closed down the greater part of the year. Only one inspection was made, when the conditions were found good in regard to safety. Ventilation good, and drainage fair, Rules are posted, but blankets and stretchers are not kept on hand as required by law.

A fair quality of oil was found being used for illuminating purposes.

This office has never been furnished with a copy of mine map.

W. P. HURST, Supt.

WILLIAM KOOSER, Mine Boss.

*MARYLAND SMOKELESS COAL CO.*

No. 532. *Dartmoor Mine*.—This is a slope opening in the Upper Freeport seam, which varies in thickness from  $3\frac{1}{2}$  to  $4\frac{1}{2}$  feet, at this place, and has a fairly good roof. The mine had been closed for a number of years but during the past year it was purchased by the present company and operated for a short time when it was again closed down. Ventilation and drainage were found bad. The company has promised that when the mine is reopened to install a fan.

A map showing mine workings extended to January 1st, 1904, has been furnished this office.

WILLIAM BARRICK and T. E. BYRNES, Supts.

JOHN GOFF, Mine Boss.

GRANT COUNTY.

*DAVIS C. & C. CO.*

Nos. 533 & 534. *Henry Shafts Nos. 22 & 33*.—These mines were regularly inspected three different times during the year and three special visits were made. This is a shaft opening in which two seams of coal are worked, one at 210 and one at 420 feet. The No. 33 mine or lower seam has been giving off considerable fire damp, resulting in several small explosions in which five men have lost their lives at different times. For the better protection of the employes it was deemed necessary to recommend the use of safety lamps and the employment of shot firers. A letter, notifying the above company and setting forth the necessity of complying with these suggestions, has been mailed to it. The company has objected to the adoption of safety lamps, and on my last visit, on May 25th, it was not operating the lower vein. No. 22 mine was found in good condition as to drainage and ventilation. Rules are posted, blankets and stretchers are kept on hand, and a fair quality of miners' oil for illuminating purposes was found in use. A map, showing mine workings extended to July 1st, 1904, has been furnished this office.

J. G. BOYD, Supt.

J. E. AMBROSE, Mine Boss.

GEORGE BOUND, Fire Boss.

**MARION C. & C. CO.**

No. 535. *Barnum or Marion Mine.*—This mine was visited once in the past year and found closed. The coal was badly cut up by faults and there was not enough coal to justify it being worked, the mine was abandoned indefinitely.

No map of this mine has ever been furnished this office.

JOHN JOSE, Supt.

C. C. CHINEWORTH, Mine Boss.

**BUFFALO CREEK CUMBERLAND COAL CO.**

No. 536. *Buffalo Creek Mine.*—This mine is a new drift opening in the Kittanning seam which has been opened within the last year. Coal at this place varies in thickness from 6½ to 8 feet, with from 9 to 20 inches of slate running through the center and from three to five inches of bone one foot from pavement. Roof is a heavy shale and is bad. Considerable water is generated in this mine and drainage only fair. Ventilation is furnished by furnace which does not at all times give satisfactory results. The mine is being developed on the triple entry system on main entries and double on cross entries, with 40 foot pillars between entries. The rooms are driven 45 feet from center to center, and 20 feet wide. It is the intention of this company if the coal proves satisfactory, to install a power plant and equip this mine with modern machinery. No rules are posted, blankets and stretchers are not kept on hand. A fair quality of oil for illuminating purposes was found to be in use.

A map, showing mine workings extended to May, 1904, has been furnished this office.

R. S. WADDELL, Supt. and Mine Boss.

**MINERAL COUNTY.****DAVIS COAL & COKE CO.**

Nos. 537 & 538. *Mines Nos. 19 & 18.*—These mines were regularly inspected three times during the year, when the conditions in regard to safety were found good. On my last visit, May 24th, 1904, these mines were found to be nearly worked out, only a few pillars remaining. It will only be a short time until these mines will be abandoned entirely. Rules are posted, blankets and stretchers kept on hand, and a good quality of miners' oil was found being used.

A map, showing mine workings extended to July 1st, 1904, has been furnished this office.

O. TIBBETS, Supt.

JOE. TIBBETS Mine Boss.

No. 539. *No. 8 Mine.*—This mine was regularly inspected three different times during the year, and was found to be almost worked out. On May 24th, date of last visit, very little coal remained to be taken out. Conditions of mine in regard to safety were fairly good. Rules are posted, blankets and stretchers kept on hand, and a fair quality of oil for illuminating purposes was found being used.

A blue print copy of map, showing mine workings extended to July 1st, 1904, has been furnished this office.

O. TIBBETS, Supt.

J. B. RANKIN and LOUIS GRANT, Mine Bosses.

No. 540. *No. 20 Mine.*—This mine was regularly inspected three times during the past year when the conditions in regard to safety were found good. Ventilation and drainage were found good in all parts of the mine. Rules are posted, blankets and stretchers kept on hand, and a good quality of oil for illuminating purposes was found in use.

A blue print copy of mine map, showing workings extended to July 1st, 1904, has been furnished this office.

LEE OTT, Supt.

B. S. COLEMAN, Mine Boss.

Nos. 541 & 542. *Nos. 9 & 6 Mines.*—These mines were regularly inspected three times during the year, when the conditions in regard to safety were found good. No new work is being done in No. 6 mine, all pillar work. Ventilation and drainage fair. Rules are posted, blankets and stretchers are kept on hand, and a fairly good quality of miners' oil was found being used for illuminating purposes. Blue print copies of mine maps, showing mine workings extend to July 1st, 1904, have been furnished this office.

LEE OTT, Supt.

JACOB OTT, Mine Boss, No. 9 Mine.

FUNSTON WILSON, Mine Boss No. 6 Mine.

*SMITH COAL CO.*

No. 543. *Smith Mine.*—This mine was regularly inspected three different times during the year, when the conditions in regard to safety were found good. Ventilation first-class in all parts of the mine. Drainage bad in places on main haulway.

Rules are posted, blankets and stretchers kept on hand, and a fair quality of oil for illuminating purposes was found in use.

This company has not as yet furnished this office with a copy of its mine map. Its attention has been called to this and a request made that a map be furnished.

R. A. SMITH, Supt.

W. D. WALKER, Mine Boss.

*PIEDMONT & POTOMAC COAL CO.*

No. 544. *Virginia Mine.*—This mine was regularly inspected three times during year, when the conditions in regard to safety were found good. Ventilation in all parts of the mine was not as good as it should be. It is produced at present by furnace, which does not give satisfactory results. The attention of the company has been called to this matter and an urgent request made that a fan be installed. Drainage throughout the mine is good. Rules are posted, blankets and stretchers kept on hand, and a good quality of oil for illuminating purposes was found to be in use.

A blue print copy of mine map, showing workings extended to January 1st, 1904, has been furnished this office.

W. E. HERNDON and B. W. SNIDER, Supts

W. B. SNYDER and ED. ACK, Mine Bosses.

*BIG VEIN COAL CO.*

No. 545. *Armstrong Big Vein Mine.*—This mine was regularly inspected two times during the year when the conditions in regard to

safety were found good. Ventilation is natural and was found satisfactory. Drainage throughout the mine was good. The work is all pillar work, being outcrop coal that had been left by a former company. Rules are posted, blankets and stretchers kept on hand, and a fair quality of oil for illuminating purposes was found to be in use.

A blue print copy of mine map, showing workings extended to May 1st, 1904, has been furnished this office.

C. F. JORDAN, Supt.

JOHN HENRY, Mine Boss.

#### TAYLOR COAL CO.

No. 546. *Taylor Mine*.—This mine was regularly inspected three times during the year when the conditions in regard to safety were found good. Ventilation is natural and is bad. The company has been promising, however, to build a furnace. An urgent request was made that a fan or furnace be installed as soon as possible. Drainage is fairly good in all parts of the mine. Rules are posted, and blankets and stretchers are kept on hand. This company has not as yet furnished this office with a copy of its mine map. Attention has been called to this and a request made that a map be furnished.

WILLIAM TAYLOR, Supt. and Mine Boss.

#### MASTELLER COAL CO.

No. 547. *Hampshire 4-ft. Mine*.—This mine was regularly inspected three times during the year, when the conditions in regard to safety were found satisfactory. Ventilation is produced by fan and is good in all parts of the mine. Drainage is good.

Rules are posted, blankets and stretchers are kept on hand, and a fair quality of oil was found in use.

This company has not as yet furnished this office with a copy of mine map. A request has been made that it does so.

M. MASTELLER, Supt.

HENRY BYER, Mine Boss.

#### ABRAMS CREEK COAL & COKE CO.

No. 548. *Oakdale Mine*.—This is a new mine that has been opened during the past year, and is located 20 miles S. W. of Piedmont on Abrams Creek and the Elk Garden branch of the West Virginia Central & Pittsburg R. R. It is a drift opening in the Upper Freeport coal, which varies in thickness from  $3\frac{1}{2}$  to  $4\frac{1}{2}$  feet at this place. Roof is a dark blue slate and is fine.

Mine is developed on the double entry system with 40 ft. pillars between entries, and rooms driven 40 ft. from center to center and 20 ft. wide. A 460 ft. plane connects the mine with the tippie.

Rules are posted, blankets and stretchers are kept on hand, and the oil used for illuminating purposes was found satisfactory.

A blue print copy of mine map, showing workings extended to April, 1904, has been furnished this office.

A. P. BRADY, Supt.

T. M. ROBINSON, Mine Boss.

#### WABASH & POTOMAC COAL CO.

No. 549. *Wabash Mine*.—This is a new mine that has been opened

during the past year. It is located at Blaine, 18 miles S. W. of Piedmont, on the North Fork of the Potomac River, and on the West Virginia Central & Pittsburg R. R.

It is a drift opening in the Upper Freeport coal, which varies in thickness from  $3\frac{1}{2}$  to  $4\frac{1}{2}$  feet at this place. On my last visit, May 17th, the main heading had been advanced between six and seven hundred feet, and was in a bad fault with not very encouraging prospects for the coal to amount to much. The coal is lowered over an incline plane 575 feet in length to tippie. Ventilation at present is produced by fire basket which furnishes sufficient air for the number of men employed. Little water is generated, and drainage is good. Rules have not been posted, blankets and stretchers were not kept on hand, and no map had ever been drawn of this mine. The attention of the company was called to these matters and a request made that they be complied with. A fair quality of oil for illuminating purposes was found in use.

J. E. HAMILTON and S. D. GILLESPIE, Supts.

H. B. JONES, Mine Boss.

#### PRESTON COUNTY.

##### AUSTEN COAL & COKE CO.

Nos. 550 & 551. *Austen Nos. 1 & 2 Mines.*—These mines were regularly inspected three times during the year when the conditions in regard to safety were found good. Ventilation is produced in both mines by fan. In some parts of No. 1 mine it is not as good as it should be. An opening is being driven to the outcrop which will greatly benefit the ventilation.

The ventilation in No. 2 mine is all that could be desired. Drainage in both mines was fairly good. A coking plant of two hundred ovens is operated in connection with these mines, one hundred and twenty of which have been constructed within the last year and two hundred more are under course of construction. Two new tipples with bins of 800 tons capacity, each, have been constructed within the last year. A power house has been built and equipped with two 150 H. P. Erie boilers; a 200 K. W. Crockard & Wheeler generator, driven by 250 H. P. Marrisburg engine. Four electric chain mining machines of the Goodman type have been installed at the No. 2 mine. A third rail electric haulage system has been installed in the No. 1 mine. Mining machines will also be introduced in the No. 1 mine. Rules are posted, blankets and stretchers kept on hand, and a fair quality of oil was found in use.

Blue print copies of mine maps, showing workings extended to January 1st, 1904, have been furnished this office.

F. W. HORCHLER, Supt.

W. R. MURPHY, Mine Boss, No. 1 Mine.

G. R. COOK, Mine Boss No. 2 Mine.

##### HAMILTON C. & C. CO.

No. 552. *Newburg Shaft.*—This mine was regularly inspected three times during the year and was found in satisfactory condition with the exception that there was no ladder way or hoist in second opening. It was noticed that timbering at top of air shaft had become badly de-



cayed. The attention of the company has been repeatedly called to these matters, but it has, as yet, made no effort to remedy them. Ventilation and drainage are good throughout the mine. In some parts of the mine small quantities of explosive gas are given off.

Rules are posted, blankets and stretchers are kept on hand, and a fair quality of oil for illuminating purposes was found in use.

This office has not, as yet, been furnished with a copy of the mine map. A request has been made that a copy be furnished.

R. D. WILSON, Supt.

JOHN HUMPHREY, Mine Boss.

J. W. N. MCGINNESS, Fire Boss.

#### GORMAN C. & C. CO.

Nos. 553 & 554. *Gorman Nos. 1 & 2 Mines.*—These mines were regularly inspected three different times during the year when the conditions in regard to safety were found good. Ventilation and drainage are good throughout the mine. A shaft was sunk at this place to the lower coal or Kittanning seam, but not finding any coal in the shaft to amount to anything several drill holes were put down to test the territory, and not finding coal of sufficient thickness to warrant further outlay the company abandoned all work along that line.

Rules are posted, blankets and stretchers kept on hand, and a fair quality of oil for illuminating purposes was found in use.

A blue print copy of mine map, showing mine workings extended to January, 1904, has been furnished this office.

E. M. KENLEY, Supt.

D. M. HARR, Mine Boss.

#### IRONA COAL CO.

Nos. 555 & 556. *Irona Nos. 1 & 2 Mines.*—These mines were regularly inspected three times during the year when the conditions in regard to safety were found good. Some difficulty in regard to ventilation was experienced. No. 1 mine was ventilated by fan which gave them considerable trouble by breaking down on several occasions. It has been repaired and changed from an exhaust to a force fan and the area of up-cast of fan has been enlarged which has greatly benefitted the ventilation. A new and larger furnace has been constructed at No. 2 mine, greatly improving the ventilation. The drainage in both mines is fairly good. Rules are posted, blankets and stretchers kept on hand, and a fair quality of oil for illuminating purposes was found in use. Blue print copies of mine maps, showing workings extended to February, 1904, have been furnished this office.

J. E. LONG and ERNEST B. TRUAX, Supts.

S. R. SPENCER, Mine Boss.

#### MERCHANTS COAL CO.

Nos. 557 & 558. *Tunnelton Nos. 1, 2 & 3 Mines.*—These mines were regularly inspected three times during the year, when the conditions in regard to safety were found good. No. 1 mine is ventilated by furnace, Nos. 2 & 3 by fan. Ventilation and drainage were found good throughout the mines. Rules are posted, blankets and stretchers kept on hand, and a good quality of oil for illuminating purposes was found in use.

Blue print copies of mine maps showing workings extended to January, 1904, have been furnished this office.

WILLIAM WARNER and D. R. PHILLIPS, Supts.

GEORGE CUMMINGS, Mine Boss, Mine No. 1.

W. B. EDWARDS, Mine Boss, Mines Nos. 2 & 3.

*OAKLAND C. & C. CO.*

No. 559. *Corinth Mine.*—This mine was regularly inspected three different times during the year, but was not found in a very satisfactory condition in regard to ventilation and drainage. A fan, however, of the Crawford and McCrimmon type, 12 feet in diameter, has been installed, which furnishes ample ventilation throughout the mine. Drainage along the main haulway is still bad. Rules are posted, blankets and stretchers kept on hand, and a fair quality of oil for illuminating purposes was found in use.

A blue print copy of mine map, showing mine workings extended to July, 1903, has been furnished this office.

S. H. JORDAN, Supt.

G. W. WATSON, Mine Boss.

*KINGWOOD COAL CO.*

No. 560. *Howesville Mine.*—This mine has been regularly inspected three different times during the year, when the conditions in regard to safety were found good.

Ventilation and drainage are satisfactory throughout the mine. Rules are posted, blankets and stretchers kept on hand, and a fair quality of oil for illuminating purposes was found in use.

A blue print copy of mine map, showing mine workings extended to January, 1904, has been furnished this office.

V. E. GOECKE, Supt.

ADAM GROSS, Mine Boss.

*HITE C. & C. CO.*

No. 561. *Dixie Mine.*—This mine has been regularly inspected three different times during the year, when the conditions in regard to safety were found good. Ventilation and drainage were found satisfactory. Very little coal remains to be taken out at this mine, as it has been entirely cut out by fault. After driving main heading a distance of nearly 700 feet in fault, and putting down three drill holes in advance of face of heading and not finding any coal, it was proven that the coal was pinched out on that side of the creek.

Rules are posted, blankets and stretchers kept on hand, oil used for illuminating purposes was found to be of a good quality.

No map of this mine has ever been furnished this office.

R. M. HITE, Supt.

ALF. FORTNEY, Mine Boss.

*ORR C. & C. CO.*

No. 562. *Vulcan Mine.*—This mine has been regularly inspected three different times during the year when the conditions in regard to safety were found good. Ventilation and drainage are fair throughout the mine. A coking plant of 100 Beehive ovens is operated in connection with this

mine. Rules are posted, blankets and stretchers are kept on hand, and the oil used for illuminating purposes was found to be of a satisfactory quality.

A blue print copy of mine map, showing workings extended to August, 1903, has been furnished this office.

J. M. ORR, Supt.

R. F. LARUE, Mine Boss.

MANUFACTURERS C. & C. CO.

No. 563. *Victoria No. 1 Mine*.—This mine has been regularly inspected three different times during the year, and was found in a satisfactory condition in regard to safety. Ventilation and drainage were found fairly good throughout the mine. Explosive gases are sometimes found in small quantities in this mine. Rules were posted, blankets and stretchers kept on hand, and oil for illuminating purposes was found to be of a satisfactory quality.

No map of this mine has been furnished this office. The attention of the company has been called to this matter and a request made that a map be furnished.

W. H. KRAMER, Supt.

JOHN LARUE, Mine Boss.

J. R. PURINTON, Fire Boss.

No. 564. *Irondale or Victoria No. 2 Mine*.—This is a new mine that has been opened within the last year. It is a slope opening in the Kittingham coal, which varies in thickness at this place from four to five feet. It is being developed on the triple entry system on main headings and double entry system on cross headings, with sixty foot pillars between entries. No rooms have been driven as yet. A coking plant of 64 Beehive ovens will be operated in connection with this mine. A power house equipped with two 125 H. P. Radcliff and Ferguson boilers, 150 H. P. Ingersoll & Sergeant air compressor, and five mining machines of the Ingersoll puncher type are in use. The miners are at present cutting and loading their own coal. Nothing but entries are being driven at the present time. Explosive gas is given off in small quantities. Ventilation is produced by a ten foot exhaust fan of the Thayer type. The ventilation and drainage were found satisfactory. Rules have not been adopted nor blankets or stretchers kept on hand, and the mine has not been surveyed.

A request was made that these deficiencies be supplied.

The oil used for illuminating purposes was found satisfactory.

W. H. KRAMER, Supt.

JOHN H. LARUE, Mine Boss.

C. W. HOFFA, Fire Boss.

PENNSYLVANIA CONSOLIDATED COAL CO.

No. 565. *Shrader Mine*.—This mine was regularly inspected three different times during the year, when the condition in regard to safety was found good. Ventilation is first-class throughout the mine.

Drainage is bad in some parts of the mine. The attention of the management was called to this and a request made that same be remedied.

Rules were posted at the mine, stretchers and blankets kept on hand, and oil used for illuminating purposes was found to be of a good quality.

No map of this mine has been furnished this office. A request has been made that it be done.

W. F. HARVEY, Supt.

C. L. FORTNEY, Mine Boss.

*ATLANTIC C. & C. CO.*

Nos. 566 & 567. *Atlantic Nos. 1 & 2 Mines.*—These mines have been regularly inspected three different times during the year, when the conditions in regard to safety were found good. Ventilation and drainage are first-class. Rules are posted, stretchers and blankets kept on hand, and the oil used meets the requirements of the law.

Blue print copy of mine map, showing mine workings extended to February, 1904, has been furnished this office.

E. B. TRUAX, Supt.

J. W. FORTNEY and HARRY KALLAWAY, Mine Bosses.

*WEST VIRGINIA COAL CO.*

No. 568. *Masontown or Richard No. 2 Mine.*—This mine is located 13 miles S. E. of Morgantown on Deckers Creek, and on the Morgantown & Kingwood R. R. It is a new mine that has been opened within the last year, and is a drift opening in the Upper Freeport coal, which varies in thickness from 6½ to 7½ ft, and has three bands of slate and one of bone running through it, making it difficult to have clean coal. A coking plant of 67 Beehive ovens has been built but not, as yet, put into blast. The mine is being developed on double entry system with 40 ft. pillars between entries, rooms 40 ft. from center to center and 20 ft. wide. Ventilation is at present produced by a small furnace, which does not give satisfactory results. It is the intention to install a fan as soon as possible. Some water is generated and the mine is going to the dip making it difficult to drain. Rules are posted, blankets and stretchers kept on hand, and a fair quality of oil is found in use.

This office has not as yet been furnished with a copy of the mine map. A request has been made that this be done.

JAMES CARTER, Supt.

JAMES GRIFFITH, Mine Boss.

*RANDOLPH COUNTY.*

*DAVIS COLLIERY CO.*

No. 569. *Coalton Mine.*—This mine was regularly inspected three different times during the year, when the conditions in regard to safety were found good. Ventilation was being produced by furnace which was not giving satisfactory results. However, a fan has been ordered and will be installed as soon as received. Very little water is generated and the drainage throughout is good. A coking plant of 200 Beehive ovens is being operated in connection with the mine, and an excellent quality of coke is being produced. Rules are posted, blankets and stretchers are kept on hand, and oil used meets the requirements of the law.

Copy of mine map, showing workings extended to July, 1904, has been furnished this office.

A. C. FINLEY, Supt.

DAVID STODDARD, Mine Boss.

No. 570. *Grassy Run Mine.*—Very little work has been done at this

mine during the past year. Only one visit was made. Main headings have been driven a distance of 800 feet.

Conditions in regard to safety were found good. For the past eight months the mine has been idle on account of the dullness of the coal trade.

A map of mine, showing workings extended to August, 1903, has been furnished this office.

A. C. FINLEY, Supt.

R. D. EDWARDS, Mine Boss.

No. 571. *Harding Mine*.—This mine was regularly inspected three different times during the year, when the conditions in regard to safety were found good. Ventilation is fair. Drainage in some parts of the mine where pillars are being drawn is bad, due to surface breaks. Rules are posted, blankets and stretchers are kept on hand, and a fair quality of oil is used.

A map, showing mine workings extended to July, 1904, has been furnished this office.

A. C. FINLEY, Supt.

A. C. DAVIS, Mine Boss.

#### MARYLAND SMOKELESS COAL CO.

Nos. 572, 573 & 574. *Weaver Nos. 1, 2 & 3 Mines*.—These mines were regularly inspected three different times during the year and were found in a satisfactory condition. Ventilation and drainage are first class. Rules are posted, blankets and stretchers kept on hand, and oil used was up to the standard.

Maps showing mine workings extended to January, 1904, have been furnished this office.

T. E. BYRNES, Supt.

JAMES STEWART, Mine Boss, Mine No. 1.

J. L. THOMAS, Mine Boss, Mine No. 2.

WILLIAM BARRICK, Mine Boss, Mine No. 3.

No. 575. *Leiter Mine*.—This mine was visited once during the year. It has been idle for the last eight months. When last visited was found in fairly good condition. Ventilation not as good as it might be in some parts of the mine. The company has promised, however, to install a fan. Some water is generated in north headings going to the dip, and some trouble has been experienced in keeping this part of the mine free from water. Rules are posted, blankets and stretchers kept on hand.

A fair quality of oil is used.

A map, showing mine workings extended to January, 1904, has been furnished.

T. E. BYRNES, Supt.

DAVID BROWN, Mine Boss.

#### RITTER COAL CO.

No. 576. *Klondyke Mine*.—This mine was regularly inspected two different times during the year, when the conditions in regard to safety were found good. Ventilation and drainage were fairly good.

Rules are posted, blankets and stretchers kept on hand, and a fair quality of oil was found in use.

No map of mine has as yet been furnished this office. A request that this be done has been made.

D. F. McMULLEN, Supt.

ANDREW HOGG, Mine Boss.

## TAYLOR COUNTY.

## GRAFTON C. &amp; C. CO.

No. 577. *Sandlick Mine*.—This mine was visited three times during the year, when the conditions in regard to safety were found good. Ventilation is natural and is fairly good. Drainage in all parts of the mine is good. Rules are posted, stretchers and blankets are kept on hand. Oil used meets the requirements of the law.

A map, showing mine workings extended to July, 1903, has been furnished this office.

J. W. FAHEY, Supt.

GEORGE ADAMS, Mine Boss.

## FLEMINGTON C. &amp; C. CO.

No. 578. *Flemington Mine*.—This mine was regularly inspected three times during the year, when the conditions in regard to safety were found good. Ventilation and drainage were found fairly good. Some parts of the dip workings were considerably troubled with water. Rules are posted, blankets and stretchers kept on hand, and a fair quality of oil was found in use.

A map, showing mine workings extended to January, 1904, has been furnished this office.

J. W. DAVIDSON, Supt.

G. R. W. JOHNSON, Mine Boss.

## DAVIS C. &amp; C. CO.

No. 579. *New York or No. 41 Mine*.—This mine was regularly inspected three different times during the year, when the conditions in regard to safety were found good. Ventilation in some parts of the mine is not as good as it should be. The attention of the management was called to this and it promised to have it remedied. Drainage in all parts fairly good.

Rules are posted, blankets and stretchers are kept on hand, and a fair quality of oil is being used.

A map, showing mine workings extended to July, 1904, has been furnished this office.

J. C. REARDON, Supt.

WILLIAM FLEMING and JOHN McDONNELL, Mine Bosses.

## L. B. BRYDON.

No. 580. *Foster Mine*.—This mine was regularly inspected three different times during the year, when the conditions in regard to safety were found fairly good. It is all pillar work, being nearly worked out. Ventilation is fair. Drainage is bad, considerable water, due to surface breaks, being generated. Rules are posted, blankets and stretchers are not kept on hand. Oil for illuminating purposes was found to be of a fair quality.

No map of this mine has ever been furnished this office.

L. B. BRYDON, Supt.

WILLIAM PHILLIPS, Mine Boss.

## ROSEMONT COAL CO.

No. 581. *Rosemont Mine*.—This mine was regularly inspected three different times during the year when the conditions in regard to safety were found good. Rules were posted, stretchers and blankets kept on

hand, oil used meets the requirements of the law. Ventilation and drainage good.

Map, showing mine workings extended to May, 1904, has been furnished this office.

JOHN FAHEY, Supt.

FRANK SAVAGE, Mine Boss.

*DAVIS-BRYDON COAL CO.*

No. 582. *T. B. Davis Mine.*—This mine was regularly inspected three different times during the year, when the conditions in regard to safety were found to be good. Ventilation is not as good as it should be, and it was recommended that a fan be installed. Drainage on the dip headings was very bad. The attention of the management was called to the necessity of installing a pump to remove the water.

Rules are posted, blankets and stretchers are kept on hand. Oil used meet the requirements of the law.

A map, showing mine workings extended to February, 1904, has been furnished this office.

WILLIAM DAILY, Supt.

THOS. FLEMING, Mine Boss.

TUCKER COUNTY.

*DAVIS C. & C. CO.*

No. 583. *No. 23 or Thomas Drift Mine.*—This mine was regularly inspected three different times during the year, when the conditions in regard to safety were found good. Ventilation and drainage were fairly good. Rules are posted, blankets and stretchers kept on hand. Oil used meets the requirements of the law.

A map, showing the workings of the mine extended to July 1st, 1904, has been furnished this office.

L. S. McDOWELL, Supt.

H. G. SMITH, Mine Boss.

No. 584. *No. 34, or Thomas Shaft Mine.*—This mine was regularly inspected three different times during the year, when the conditions in regard to general safety were only fairly good. Ventilation on the east side of mine was bad, on the west side of mine it has been greatly improved by cutting straight west heading through into No. 14 straight heading in No. 37 mine, thus improving the ventilation in both these mines. A heading is being driven from straight east heading in No. 34 mine through to No. 36 mine, which will no doubt greatly benefit the ventilation in both these mines. An unusual amount of water is generated and drainage is not very good. Rules are posted, blankets and stretchers kept on hand. The oil used meets the requirements of the law. Map, of mine workings, extended to July, 1904, has been furnished this office.

L. S. McDOWELL, Supt.

WM. P. CUNNINGHAM, Mine Boss.

No. 585. *No. 25 or Thomas Mine No. 3.*—This mine was regularly inspected three times during the year, when the conditions in regard to safety were found to be good. Drainage is not very good on the dip side of the mine. Small quantities of explosive gas are given off and it was deemed advisable to put on a fire boss. Rules are posted, stretchers and blankets kept on hand. Oil used meets with the requirements of the law. During the year an endless rope haulage system has been

installed, replacing the electric system that had been in use previously. On account of the mine going to the dip very rapidly, and insufficient room between mine entrance and tippie to hold a train of mine cars, the endless rope haulage could be operated to better advantage. A power house has been installed, equipped with two 150 H. P. Phoenix boilers and two 150 H. P. Ingersoll-Sergeant air compressors. A map, showing mine workings extended to July 1st, 1904, has been furnished this office.

L. S. McDOWELL, Supt.

GEO. CAMPBELL, Mine Boss.

ARTHUR STEWART, Fire Boss.

Nos. 586, 587 and 588. *Nos. 35, 36 and 37 Mines.*—These mines were regularly inspected three different times during the year, when the conditions in regard to safety were found fairly good. Ventilation in Nos. 35 and 36 mines is not very good. It will be greatly benefitted when the airway is driven through to No. 34 mine. Ventilation in No. 37 mine is very much improved by a heading having been driven through to the west side of No. 34 mine. Drainage in these mines is not of the best, owing to local dips, and a large amount of water is generated. Rules are posted, blankets and stretchers kept on hand, and a fair quality of oil is used.

Maps showing the mine workings extended to July 1st, 1904, has been furnished this office.

L. S. McDOWELL, Supt. THOS. KILROY, Mine Boss, No. 35 Mine.

W. J. CHRISTOPHER, Mine Boss, No. 36 Mine.

W. F. REEVES, Mine Boss, No. 37 Mine.

#### CUMBERLAND COAL CO.

No. 589. *Douglas No. 1 Mine.*—This mine was regularly inspected three different times during the year, when the conditions in regard to safety were found as good as could be expected under the circumstances. The mine is being drawn back preparatory to final abandonment. Draw slate is very heavy and rotten, and requires careful timbering to make it safe. Ventilation and drainage were found to be fairly good. Rules are posted, blankets and stretchers kept on hand. Oil used meets the requirements of the law.

A mine map, showing mine workings extended to July, 1904, has been furnished this office.

J. B. JENKINS, Supt.

GEORGE JENKINS and

JAMES CHRISTOPHER, Mine Bosses.

Nos. 590, 591 and 592. *Douglas Nos. 3, 4 and 5 Mines.*—These mines were regularly inspected three different times during the year, when the conditions in regard to safety were found good. Ventilation and drainage were fairly good throughout the mines. Rules are posted, blankets and stretchers are kept on hand. Oil used meets the requirements of the law.

Map showing the mine workings extended to July 1st, 1904, have been furnished this office.

J. B. JENKINS, Supt.

JAS. CHRISTOPHER, Mine Boss.

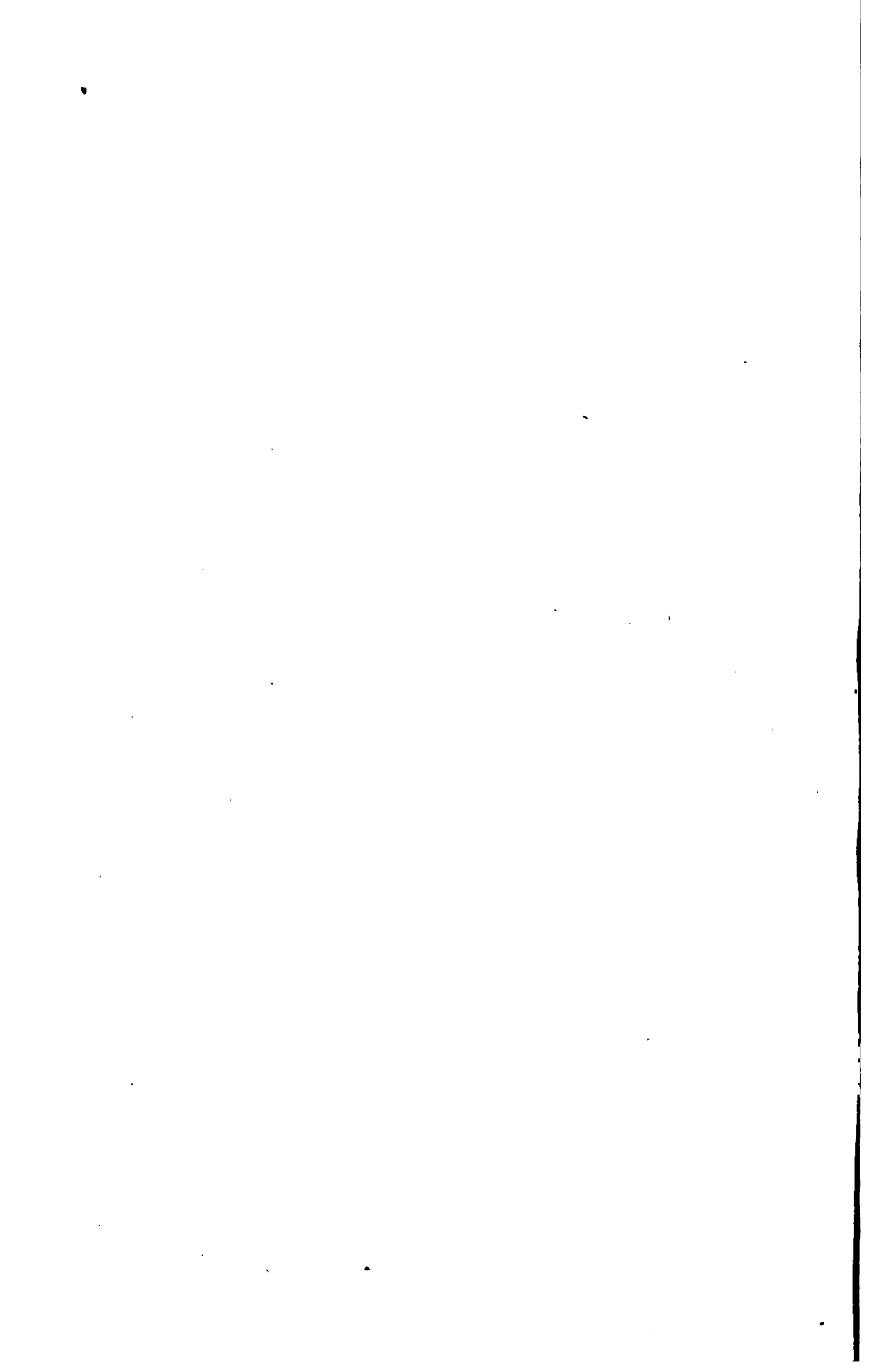
#### BEACON COAL & COKE CO.

No. 593. *Beacon Mine.*—This is a new mine and just began shipping coal.

H. M. VAN ZANDT, Supt.

F. BELL, Mine Boss.





## **APPENDIX.**



## APPENDIX.

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This appendix contains copies of the Bills submitted for legislation upon matters pertaining to the inspection and ventilation of mines; copies of rules adopted at mines for the regulation of their operation; copies of the wage agreements adopted by the operators' and miners' joint conventions held in 1903 and 1904, and plates showing maps of mines in the different coal districts of the State. These maps are exact copies of maps made of the actual development within the mines, and represent the mines as shown in the table preceding the maps.

The Chief Mine Inspector acknowledges the assistance given by the presidents, general managers and engineers of the different operating companies who furnished the maps herein reproduced.

### LEGISLATION.

#### *Department of Mines.*

A BILL to create the "Department of Mines"; to provide a more efficient system of mine inspection; to re-district the State for the purpose of mine inspection and to repeal section one of chapter one hundred and six of the Acts of nineteen hundred and one, and section four of chapter nine of the Acts of eighteen hundred and ninety.

Be it enacted by the Legislature of West Virginia:

Sec. 1. There is hereby created an executive department to be known as the "Department of Mines" which shall have for its purpose the execution and enforcement of all state laws pertaining to the inspection of mines, heretofore and hereafter enacted for the safety of persons employed within or at the mines within this state, and the said department of mines shall be in charge of an official to be known as the chief mine inspector who shall have full charge of said department and who shall superintend and direct the inspection of mines as herein provided and as provided by any other state law not in conflict with this act.

The chief mine inspector shall keep a record of all inspections made by himself and the district mine inspectors, which shall be a permanent record properly indexed.

The records of the department of mines shall at all times be open to inspection by any citizen of this state, and upon request of the governor of the state, the chief mine inspector shall lay said records before said officer, also maps of mines furnished the chief mine inspector by the district mine inspectors.

Any chief mine inspector who shall violate any of the provisions of this act, shall, upon conviction thereof, be fined not less than twenty-five nor more than two hundred dollars, and may in the discretion of the court, be imprisoned in the county jail not exceeding one year.

The chief mine inspector shall be a male/citizen of West Virginia, and shall be a competent person, having had at least eight years' experience in the working, ventilation and drainage of coal mines in this state, and

having a practical and scientific knowledge of all noxious and dangerous gases found in such mines; and to enable the said chief mine inspector to perform his duties he shall have the same authority to visit, enter and examine the mines as is conferred upon the district mine inspectors, and he shall have the authority to call the assistance of any one of the district mine inspectors to any district in the State.

Within thirty days after this act becomes a law, and every four years thereafter, the Governor of the State shall, with the consent of the Senate, appoint a chief mine inspector whose term of office shall begin July 1st, 1905, and shall be four years, or until his successor shall be duly appointed and qualified.

The salary of the chief mine inspector shall be twenty-five hundred dollars per annum, and seven hundred dollars for expenses, which shall be paid monthly out of the State treasury upon a requisition upon the State auditor, properly certified by the chief mine inspector.

Sec. 2. Within thirty days after this act becomes a law and every four years thereafter, the governor of the State shall appoint one district mine inspector for each mining district within the State as hereinafter provided, whose term of office shall begin July 1st, 1905, and shall be four years, or until his successor shall be duly appointed and qualified.

The salary of each district mine inspector shall be eighteen hundred dollars per annum, and not more than five hundred dollars for expenses. Such salary and expenses shall be paid monthly out of the State treasury upon the approval of the chief mine inspector; *Provided*, That before payment of traveling expenses shall be made to the inspector, he shall file an account of such expenses, verified by his affidavit, showing that they accrued in the discharge of his official duties.

Every person so appointed district mine inspector must be a citizen of West Virginia, having a practical knowledge of mining and the proper ventilation and drainage of mines, and a knowledge of the gases met with in coal mines, and must be a miner of at least six years' experience in coal mines, or having been otherwise engaged as an employe for six years within the mines of this State, and he shall not, while in office, be interested as owner, operator, agent, stockholder, superintendent or engineer of any coal mine, and he shall be of good moral character and temperate in habits. An inspector of mines shall be removed from office by the chief mine inspector of this State for incompetency, neglect of duty, drunkenness, malfeasance and for other good causes.

Each of the district mine inspectors shall report in writing monthly to the chief mine inspector, the number and condition of all mines inspected by him during each month, and shall deliver to the operator or operators of each mine inspected a certificate of inspection, and he shall visit each mine in his district at least once in every three months, or oftener if called upon in writing by twenty men engaged in any one mine, and make a personal examination of the interior of all mines, and outside of the mine where any danger may exist to the workmen, in their respective districts, and shall particularly examine into the condition of the mines as to ventilation, drainage and general safety, and shall make a record of all such examinations, and he shall see that all the provisions of the

mining statutes are strictly carried out, and it shall be unlawful for any district mine inspector to appoint any deputy or other person to do and perform any work required of such inspector.

Any mine inspector failing to comply with the requirements of this act shall be guilty of a misdemeanor, and upon conviction thereof shall be fined not less than one hundred dollars nor more than five hundred dollars, and be dismissed from office.

The chief mine inspector and the district mine inspectors shall, each, before entering upon the discharge of his duties, take the oath of office prescribed by the constitution, and shall furnish bond in the sum of two thousand dollars, with security to be approved by the governor, conditioned upon the faithful discharge of his duty, a certificate of which oath and bond shall be filed in the office of the secretary of state.

Vacancies in the office of the chief mine inspector or district mine inspectors shall be filled by appointment for the unexpired term.

Sec. 3. Each district mine inspector shall, for each year ending with the thirtieth day of June, make a written report to the chief mine inspector of his proceedings, stating therein the number of mines in his district, the improvements made in and at the mines, the extent to which this act is obeyed or violated, and such other information in relation to mines and mining as he may deem of public interest, or as may be required of him by the chief mine inspector. He shall also suggest or recommend such legislation on the subject of mining as he may think necessary. Such report shall be filed with the chief mine inspector on or before the thirtieth day of September next succeeding the year for which it was made. The chief mine inspector shall annually make a full and complete written report of his proceedings as such chief mine inspector to the governor of the State for the year ending the thirtieth of June. Such report shall include the reports of the district mine inspectors, the number of visits and inspections made in the State by the district inspectors, the quantity of coal and coke produced in the State, the number of men employed, number of mines operated, ovens in and out of blast, improvements made, prosecutions, etc., and such other information in relation to the subject of mines, mining, inspection and needed legislation as he may deem of public interest and beneficial to the mining interests of the State. Such report shall be filed with the governor on or before the thirtieth day of December next succeeding the year for which it was made, and such report shall be printed upon the requisition of the governor, and in order that the report may be annually printed and distributed among the operators, miners and citizens of this State, the sum of fifteen hundred dollars shall annually be allowed out of the State treasury for this special purpose.

Sec. 4. The chief mine inspector, by and with the approval of the governor, shall divide the State into seven mining districts, in such a manner as to equalize as far as practicable the work of each district inspector.

Sec. 5. Section one of chapter one hundred and six of the Acts of one thousand nine hundred and one, and section four of chapter nine of the Acts of one thousand eight hundred and ninety are hereby repealed.



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*Duties of Mine-Boss.*

Mine-Boss shall comply with the requirements of the mine State and shall familiarize himself with the mining laws. He shall visit each working place in the mine at least once in a week and direct the miners and other employes in their work. He shall see that the miners to securely prop their working places and see that the breakthroughs at suitable distances to properly ventilate the working places.

In case of the Fire-Boss he shall have charge of the ventilating power.

In case the ventilation of the mine should be interrupted, stoppage of the fan or by a fall of the roof, he shall immediately direct all employes to withdraw from the mine until the ventilation is restored.

The Mine-Boss shall have delivered to the miners, at their request, all such timber as is required to make the working places

The Mine-Boss shall see that the necessary notices of warning are posted at the entrance to all abandoned parts of the mine.

Where the mine is worked by shaft or where a mechanical hoist is used in the mine he shall post in the engine-house, at the top of the shaft, and at points along the haulage, the code of signals, a conspicuous light, which shall govern the operation of the hoist.

He shall see that on the front end of every trip or train of loaded cars, a conspicuous light shall be carried when the same is in motion in the mine.

He shall regulate the time when shots may be fired by miners, and see that no greater quantity of powder, or other explosive is used than is necessary for one shift of twelve hours. He shall not permit quantities of oil to be stored inside the mine.

He shall keep a stationary light at the top and bottom of the shaft. He shall keep the same in good repair and lighted during darkness as the mine is being operated, or as long as the men are in the mine.

He shall see that necessary refuge holes on haulage ways are kept open and kept whitewashed.

*Duties of Fire-Bosses.*

If noxious gases are found to exist in sufficient quantities to necessitate the employment of a Fire-Boss, his duties shall be as follows:

1. The Fire-Boss shall, on entering the mine, examine the fan power of ventilation and see that it is in good running order. On leaving the mine he shall erase all marks on the sign board, and mark the day of the month thus, (30); and before proceeding to examine the mine he shall see that the air current is traveling in its proper direction.

12. On entering the mine at the beginning of work he shall ex-



## LEGISLATION.

*Ventilation.*

A BILL to amend chapter one hundred and six of the Acts of the Legislature of West Virginia of one thousand nine hundred and one by adding section twenty-one, relating to air measurements within the mines.

Be it enacted by the Legislature of West Virginia:

That chapter one hundred and six of the Acts of one thousand nine hundred and one be amended by adding thereto section twenty-one so as to read as follows:

Sec. 21. After the first day of June, one thousand nine hundred and five, each person, firm or corporation which operates a coal mine in this State and in which is employed a "mining boss" shall provide and keep in good repair an anemometer of such construction as shall have the approval of the district mine inspector of the district in which the mine is located.

The mining boss of each mine in the State shall, once each month while the mine is in operation, take such readings of the anemometer and make such measurements inside of the mine as will show the number of cubic feet of air per minute which is in circulation at the innermost end of the principal headings; at the main intake and main return air course; along the principal cross and butt entries and at such other places as the district mine inspector may request.

A record of such readings and measurements of the air currents shall be entered in a book having such form or rulings as may be recommended by the chief mine inspector. This book shall be the property of the operator of the mine and shall be kept at the mine and at all times shall be subject to the inspection of the chief mine inspector and the district mine inspector.

Within the first five days of each month the operator of each mine shall cause to be mailed to the district mine inspector of the district in which the mine is located a correct copy of the measurements of air taken during the previous month and the person who took such measurements shall make an oath that such measurements and air volumes are correct, and such oath shall be attached to the report made to the district inspector. Forms for such report shall be furnished by the chief mine inspector.

The penalty for the violation of section twenty-one shall be as is provided in section seventeen of chapter nine of the Acts of one thousand eight hundred and ninety.

## RULES FOR GOVERNMENT OF MINES.

*Notice.*

Regulations adopted by the United States Coal and Coke Company for the government and operation of its mines on Tug River, McDowell county, W. Va., made in compliance with the requirements of the Acts of the Legislature of 1901, chapter 106, section 20.

Rule 1. It shall be the duty of each employe of this company to comply with the mining laws of this State.

*Duties of Mine-Boss.*

Rule 2. The Mine-Boss shall comply with the requirements of the mining laws of this State and shall familiarize himself with the mining laws.

Rule 3. He shall visit each working place in the mine at least once in every two days and direct the miners and other employes in their work. He shall direct the miners to securely prop their working places and see that they drive breakthroughs at suitable distances to properly ventilate their working places.

In the absence of the Fire-Boss he shall have charge of the ventilating machinery, or power.

Rule 4. In case the ventilation of the mine should be interrupted, either by the stoppage of the fan or by a fall of the roof, he shall immediately instruct all employes to withdraw from the mine until the ventilation is restored.

Rule 5. The Mine-Boss shall have delivered to the miners, at their working places, all such timber as is required to make the working places safe.

Rule 6. The Mine-Boss shall see that the necessary notices of warning are kept posted at the entrance to all abandoned parts of the mine.

Rule 7. Where the mine is worked by shaft or where a mechanical haulage is used in the mine he shall post in the engine-house, at the top and bottom of the shaft, and at points along the haulage, the code of signals with a conspicuous light, which shall govern the operation of the machinery. He shall see that on the front end of every trip or train of cars a conspicuous light shall be carried when the same is in motion in the mines.

Rule 8. He shall regulate the time when shots may be fired by miners, and shall see that no greater quantity of powder, or other explosive is stored in, or taken into the mine than is necessary for one shift of twelve hours; and he shall not permit quantities of oil to be stored inside the mines.

Rule 9. He shall keep a stationary light at the top and bottom of the shaft, and he shall keep the same in good repair and lighted during darkness as long as the mine is being operated, or as long as the men are in the shaft.

Rule 10. He shall see that necessary refuge holes on haulage ways are provided and kept whitewashed.

*Duties of Fire-Bosses.*

When gases are found to exist in sufficient quantities to necessitate the employment of a Fire-Boss, his duties shall be as follows:

Rule 11. The Fire-Boss shall, on entering the mine, examine the fan or other power of ventilation and see that it is in good running order. Upon entering the mine he shall erase all marks on the sign board, and write the day of the month thus, (30); and before proceeding to examine the mine he shall see that the air current is traveling in its proper course.

Rule 12. On entering the mine at the beginning of work he shall ex-

amine the same with safety lamp, and mark the face of all rooms or working places in the following manner:

The day of the month (30) indicates that inspection has been made and that the room or working place is free from fire damp or dangerous gas.

Two large crosses with the day of the month between them thus X30X, indicates the presence of fire-damp, or dangerous gases and extreme danger. These marks must be made on a cap piece, or other timber, laid and in the roadway at the mouth of room or working place.

Rule 13. After complete examination of the mine has been made, the fire-boss shall come out of the mine and write upon a board, provided at the entrance, the day of the month, and sign his name; and if any part of the mine has been found dangerous he shall write on the board the word XDangerX, and the name of the locality where the danger exists; and he shall personally notify the men who work in such places as to the danger, and warn them not to proceed to work until he has removed the danger. He shall then proceed to remove the gas in such places, and in so doing he shall see that the gas so removed will not be carried onto the workmen in any other part of the mine. Should the fire-boss need assistance in removing the gas from any section or parts of the mines, he shall designate the person to act as his assistant.

#### *Duties of Miners.*

Rule 14. Miners shall observe every precaution to prevent accidents to themselves in or about the mines. They shall not work in any unsafe place when timber would remedy the danger.

Rule 15. No miner shall take into the mine a greater quantity of powder, or other explosives, than is required for his own use for any one shift of twelve hours.

Rule 16. The miner shall, each day or night before beginning work, and during the day or night, while performing his work, examine carefully his working place, and take down all dangerous slate, and make his working place safe by properly timbering it; and he shall always keep on hand, and available, the necessary props and caps for timbering. Should a dangerous condition arise, and he be without timber, he shall immediately cease work, vacate his working place and report the fact to the mine-boss.

Rule 17. Every miner, when putting in an undercut, shall see that the coal is properly spragged to prevent the coal from falling upon him.

Rule 18. Every miner is cautioned not to visit the face of his working place after he has fired a shot in same until the smoke has been removed, when an examination of the working place shall be made by him before beginning work.

While awaiting the explosion of the shot, he must station himself in a safe place and he must prevent any other person from visiting his working place until it is safe to do so.

Rule 19. No miner, or other employe, shall be permitted to burn kerosene or black-strap oil in his lamp within the mine, under penalty of fine and imprisonment by the State authorities.

Rule 20. When necessary for their use, this company will furnish, and keep clean and in good condition and furnish oil for same, safety lamps, for which a minimum charge per day will be made. Any miner injuring or abusing these lamps, will be charged for the injury done.

Rule 21. Miners will be required to lay all wooden rails from end of track to faces of places.

*Duties of Timber-Men and Slate-Men.*

Rule 22. Any employe acting as timber-man or slate-man, shall make a thorough examination of the condition of the mine at the place he is to perform work, and if he finds any danger to exist he shall have such danger removed before beginning work.

Care must be exercised in the performance of his work, in order to prevent accident to himself or others.

*Duties of Track-Layers.*

Rule 23. Any person engaged in the occupation of track-man, or assistant, in the mine shall exercise due care and economy in the use of materials and supplies. He shall, when working on tracks in the haulways traversed by mules, locomotives or motors, hauling cars, give proper notice that the track is being repaired, so that all movement of trips or trains of cars will approach said place under control. He shall, when such trips or trains of cars are passing, step aside into a place of safety. He shall, before beginning work on the track, examine the condition of the mine at the place his work is to be performed.

*Duties of Drivers.*

Rule 24. Any person engaged as a driver shall take good care of and shall not abuse the mules, horses or harness entrusted to his keeping. In approaching switches or turn-outs on which cars are standing, or on steep grades, he shall have the speed of the car, or cars under control. He shall in no case expose himself, mules or horses, to danger.

All drivers are required to thoroughly clean harness and unharness their horses or mules each morning and evening to the satisfaction of the stable boss in charge of the stable.

*Duties of Stable-Man.*

Rule 25. The duties of the stable-man shall be to take entire charge of all stock at his stable, to see that they are delivered to him in good condition by the drivers and to report any sickness or injury, with name of driver, immediately to the chief stable boss. He shall see that all stock is properly fed, cleaned, watered, shod and harnessed before it leaves the stable. He shall keep his stable clean and in good condition, and prevent any loafing or smoking around the stable.

*Duties of Door-Boy.*

Rule 26. It shall be the duty of the door-boy to be at his door at all times when the mine is in operation, and in no case shall he leave his door without permission from the mine boss. He shall in no case expose himself to danger while the cars, locomotives or motors are passing in or out of the mines.

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*Duties of Locomotive Runners, Motor-Men and Brakemen.*

Rule 27. Any person employed as locomotive-runner or motorman is required to give his locomotive or motor careful daily inspection and report condition of same, and must not run it unless he believes it to be in an entirely safe condition for service. He is also expected to keep his motor neat and clean in appearance. He must be vigilant and watchful to the full extent of his ability, with a view to avoiding accidents to himself, or injury to person or damage to property.

Brakemen shall be careful in applying brakes or coupling and making up trains, etc., and particularly cautious in the movement of cars, or laries, and work in harmony with their locomotive-runner or motorman.

*Duties of Fan-Engineer.*

Rule 28. Any person engaged in the capacity of fan-engineer, or the person designated to act in such capacity by the mine-boss, shall see that the machinery and boilers are kept in good working condition and that the fan is kept running at all times. Should the fan be stopped, by accident or for repairs to the ventilating machinery, while men are engaged at work in the mine, the person in charge of the fan shall immediately notify the mine-boss of such stoppage.

*Duties of Engineers.*

Rule 29. It shall be the duty of the engineer to keep careful watch over his engine and all machinery under his charge, and see that the same is in proper working order before starting time. He shall see that the boilers are properly cleaned and inspected at proper intervals, and that the steam pressure does not exceed at any time the limit allowed by the superintendent. He shall not allow any unauthorized person to enter the engine-house, nor shall he allow any person to handle or run the engine without the permission of the superintendent.

He shall make himself acquainted with the signal codes provided.

When workmen are being raised or lowered he shall take special precaution to keep the engine well under control.

*Duties of Cagers.*

Rule 30. The cager at the bottom of any shaft shall not attempt to withdraw the car until the cage comes to rest, and when putting the full car on the cage he must be very careful to see that the springs or catches are properly adjusted so as to keep the car in its proper place before giving the signal to the engineer.

At every shaft or slope mine where provision is made for lowering and hoisting persons a headman and footman shall be designated by the superintendent or mine foreman, who shall be at their proper places from the time that persons begin to descend until all the persons who may be at the bottom of said shaft or slope when quitting work, shall be hoisted; such a headman and footman shall personally attend to the signals and see that the provisions of the mine law in respect to lowering or hoisting persons in shafts or slopes shall be complied with.

He shall not allow any tools to be placed on the same cage with men

or boys, nor on either cage when persons are being hoisted out of the mine or being lowered into the mine, except when for repairing the shaft or machinery therein. The men shall place their tools in cars provided for that purpose, which car or cars shall be hoisted or lowered before and after the men have been hoisted or lowered. And he shall immediately inform the mine foreman of any violation of this rule.

He shall also see that no driver or other person ascends the shaft with any horse or mule unless the said horse or mule is secured in a suitable box and safely penned, and only the driver in charge of said horse or mule shall accompany it in any case.

He shall see that no more than ten persons are hoisted at one time.

#### *Duties of Top-Man.*

Rule 31. The top-man of any shaft shall see that the springs or keeps for the cage to rest upon are kept in good working order, and when taking the full car off he must be careful that no coal or other material is allowed to fall down the shaft.

He shall be at his proper place from the time that persons begin to descend until all the persons who may be at the bottom of said shaft or slope when quitting work shall be hoisted. Such headman and footman shall personally attend to the signals and see that the provisions of the mine law in respect to lowering and hoisting persons in shafts or slopes shall be complied with.

He shall not allow any tools to be placed on the same cage with men or boys, nor on either cage when persons are being lowered into the mine, except when for the purpose of repairing the shaft or the machinery therein. The men shall place their tools in cars provided for that purpose, which car or cars shall be lowered before or after the men have been lowered.

He shall also see that no driver or other person descends the shaft with any horse or mule unless the said horse or mule is secured in a suitable box or safely penned, and only the driver in charge of said horse or mule shall accompany it in any case.

He shall see that not more than ten persons are lowered at one time.

#### *Duties of Firemen.*

Rule 32. Every Fireman, or other person in charge of a boiler, or boilers, for the generation of steam, shall keep a careful watch over same. He shall see that the steam pressure does not exceed at any time the limit allowed by the Superintendent. He shall regulate the cleaning of his fires at such time during the day as not to decrease the proper amount of steam to operate the plant. He shall frequently try the safety valve, and shall not increase the weight on the same. He shall maintain the proper depth of water in each boiler, and if anything should happen to prevent this, he shall report the same, without delay to the engineer, and take such other action as may, under the particular circumstances be necessary for the protection of life and preservation of property.

#### *Duties of Car-Loaders, Car-Runners, Etc.*

Rule 33. Any person engaged as car-loader, car-runner, tipple-man,

spraggers, couplers, oilers or others engaged in or about the mines, shall exercise careful watch over his own safety and also over that portion of the work assigned to him. In the movement of mine or railroad cars in or about the plant, the brakes on the cars shall first be examined before starting same and ascertain if in good working order, and when applying the brakes on the cars, or coupling and uncoupling same, each person so engaged shall perform his work in such a manner as to avoid accident to himself, to others or property.

*Duties of Coke-Oven Employes.*

*Coke Boss.*

Rule 34. It shall be the duty of the coke boss to see that the coke ovens are operated in such a manner as to prevent undue waste in the coking of coal. He shall see that the coke-oven employes are at their respective places of work and at the proper hours of work. That all ovens are thoroughly cleaned out before slack is charged into the same. That all ovens are properly charged, leveled and drafted, and should the charge of slack be choked before the time designated to draw same, he shall have the oven doors entirely sealed, thereby preventing the admission of air, and the burning away of the coke. That all ashes, or other debris, in coke cars is removed, and shall see that the coke loaders exercise care in loading the coke, so that no ashes are carried with the coke into the car. He shall pay strict attention and have the coke loaders place the slats in the door-ways of the cars so as to prevent loss of coke in transit. He must see that all drop-bottom doors are securely fastened before coke is loaded into the cars.

*Chargers.*

Rule 35. Chargers shall exercise due care in the discharge of the duties assigned them, and shall be watchful in coupling or uncoupling or the applying of brakes on the larries. They shall examine the brakes and other parts of the larries from time to time and see that they are in good working order, so that accidents to themselves, or others, shall be avoided. They shall pay strict attention to the instructions given them by the coke boss and shall charge the proper amount of slack into each oven. In cases where ovens are drawn and the coke drawer has failed to place the lid on the trunnel-head, to prevent the cooling of the oven, he shall report such neglect, giving the number of the oven to the coke boss. Any appearance, through the trunnel head, or ovens improperly leveled, shall also be reported to the coke boss.

*Leveler.*

Rule 36. It shall be the duty of the leveler to thoroughly level the slack placed in the oven so that when the same is done the slack will present an even surface throughout the entire oven. He shall immediately brick up and daub the door inside the door-frame in a thorough manner.

*Drawers.*

Rule 37. All coke oven drawers shall report for duty at the time desig-

nated by the coke-boss, and shall not draw any oven without his authority. They will not use more water than is absolutely necessary to quench the coke in the oven before drawing. In watering down the oven they shall keep hold of the watering-pipe and see that no water is allowed to strike the crown of the oven, as any damage to the crown of the oven in the rear of trunnel-head indicates the violation of this rule. No coke drawer shall be allowed to water down an oven while engaged in drawing another. They shall be particular in seeing that all coke is removed from the oven, and the same is thoroughly cleaned, as any clinker found on the tile, or floor of the oven, indicates that it has not been previously cleaned and, therefore, this rule not complied with.

Each drawer shall place a lid on the trunnel-head after the coke has been withdrawn therefrom, and shall brick up the door of his oven to a height of at least six courses of brick and daub the joints between same. Where sheet iron doors are provided, each drawer shall close the same after having bricked up the door of the oven, as suggested above.

In forking back or loading coke into barrows to be wheeled into cars, all drawers must fork coke clean of ashes.

#### *Loaders.*

Rule 38. It shall be the duty of all coke loaders to remove all refuse from the cars before they begin to load coke into them. They shall be particular in shaking the fork, so as to prevent the ashes from being loaded into the cars, and see that the slating is properly done in order to avoid any loss of coke in transit. They shall completely load the ends of box and stock cars before finally completing the loading of the cars at the doors.

#### *Miscellaneous Labor.*

Rule 39. All persons engaged in hauling ashes, cleaning track, or other miscellaneous labor, shall report to the coke boss, at the proper time, for instructions. When the duties of any of the above class of labor assume any risk in their employment they shall exercise every care to prevent accidents to themselves or others.

#### *General Rules.*

1. All persons seeking employment shall do so outside of the mines. No one but employes are allowed inside the mines.

2. All persons are hereby forbidden to enter any old workings in the mine without the consent of the mine boss.

3. Any person who opens a door which has been erected for ventilating purposes, must see that it is properly closed and fastened before leaving it.

4. All persons who ride on steam or electric locomotives, trips or trains of cars, or on the incline, do so at their own risk.

5. Any person in the employ of the company, who is found intoxicated upon the works while performing his duty, or who carries liquor into the mines shall be discharged.

6. It shall be the duty of all employes to familiarize themselves with



the rules of this company; and any employe violating any of these rules, will subject himself to dismissal, and in case of accident caused by such violation, to prosecution.

7. Any person found guilty of carelessly, or wickedly, abusing any animal, or other property, shall be held liable to the full amount of the damage done, and be punished as prescribed by law for such offences.

8. Any person knowing of the unsafe condition of any place or of damage done to the doors, stoppings, or brattices, or of obstructions in the air-ways, or other causes of danger, shall notify the mine boss, if one is employed, as soon as possible.

9. All employes shall use man-ways provided as traveling ways to and from their work, and shall not travel on haulage roads; only trackmen, slatemen and others, when their duties require it, are allowed to travel on haulage roads, and they must use every precaution to prevent accidents to themselves when doing so.

10. Miners and all other underground employes who engage helpers, back hands or laborers, that although they are not in the employ of this company they must be governed by the foregoing rules and regulations in every particular, and it is the duty of every miner to call attention to, and fully explain to his helper, back hand or laborer, the rules and regulations of this company.

11. No employe of this company is required or expected to work in any place of unusual or unnecessary danger inside of its mines, or outside of its mines, and should any employe discover any unusual or unnecessary danger, or any danger that can be removed, arising from any cause whatever, such employe shall at once remove such danger, for which service said company will pay such employe a reasonable compensation for any work beyond what it is his duty to do under contract of service, and any work done under this rule shall be daily reported to the mine boss; or, if such employe prefers, he shall at once report such danger; if inside the mines, to the mine boss or fire boss, and the said mine boss or fire boss, as the case may be, shall at once remove such danger. If the danger is on the outside of the mines, such employe shall report such danger to the foreman in whose department such danger exists, and should such mine boss or fire boss or foreman fail to remove such danger at once such employe shall at once report such danger and failure to the general superintendent; and such employe is hereby required not to work at or in such place of danger until the cause of the danger is removed.

Approved and adopted by the board of directors of the United States Coal and Coke Company, at its meeting held at Pittsburg, Pa., on ..... 1903, and ordered by them to be posted in accordance with the law.

Attest:

....., Secretary.  
....., President.

## HUNTINGTON AGREEMENT, 1903.

*Scale of Prices.*

Basis Ton 2,000 Lbs. Run of Mine Coal.

HUNTINGTON, W. VA., April 17, 1903.

The following scale of prices and resolutions were unanimously adopted by the Convention of Operators and Miners of the Kanawha District of West Virginia, assembled at Huntington, April 14, 1903:

*Kanawha Thick Vein, Nos. 1 and 2 Seams.*

|                                                            |      |
|------------------------------------------------------------|------|
| Pick Mining .....                                          | .45  |
| Yardage in Pick Entries .....                              | 1.00 |
| Machine Mining in Room.....                                | .22½ |
| Machine Mining in Entries and Breakthrough in Entries..... | .27½ |
| Machine Cutting in both Rooms and Entry.....               | .05½ |

*Kanawha Hard Coal, No. 5 Seam.*

|                                                            |      |
|------------------------------------------------------------|------|
| Pick Mining .....                                          | .47  |
| Yardage in Pick Entries.....                               | 1.10 |
| Machine Mining in Rooms .....                              | .23½ |
| Machine Mining in Entries and Breakthrough in Entries..... | .28  |
| Machine Cutting in Room .....                              | .06½ |
| Machine Cutting in Entry .....                             | .07½ |

Screen coal to be paid for on basis of percentage of Screenings.

*Coalburg Seam.*

|                                                          |      |
|----------------------------------------------------------|------|
| Pick Mining .....                                        | .52  |
| Yardage in Pick Entry .....                              | 1.25 |
| Machine Mining in Room.....                              | .28½ |
| Machine Mining in Entry and Breakthrough in Entries..... | .33  |
| Machine Cutting in Room.....                             | .06½ |
| Machine Cutting in Entry .....                           | .07½ |

*Over 1½-inch Screen.*

|                                                        |         |
|--------------------------------------------------------|---------|
| Pick Mining .....                                      | .75     |
| Machine Mining in Room.....                            | .38     |
| Machine Mining in Entry and Breakthrough in Entry..... | .46     |
| Machine Cutting in Room.....                           | .09     |
| Machine Cutting in Entry.....                          | .10 1-3 |

*Cedar Grove Seam.*

|                                                            |      |
|------------------------------------------------------------|------|
| Pick Mining .....                                          | .52  |
| Yardage in Pick Entries .....                              | .85  |
| Machine Mining in Room .....                               | .28½ |
| Machine Mining in Entries and Breakthrough in Entries..... | .33  |
| Machine Cutting in Room .....                              | .08½ |
| Machine Cutting in Entries .....                           | .09½ |

Lewiston Seam to be same as Coalburg.

Kanawha Seam to be same as Coalburg.

Black Band Seam to be same as Coalburg.

Elk River Seam same as Kanawha Hard Coal or No. 5 Seam.

Guyandotte River to be same as Kanawha Hard Coal or No. 5.

Raymond Seam same as Coalburg except to be mined over 1¼ screen, and there shall be a difference of 3-8c. per bushel.

Gauley River Seams to be based upon Kanawha Seams that apply to them.

Elk River Cannel Coal, special price to be agreed upon.

*Inside Day Labor.*

|                                                             |        |
|-------------------------------------------------------------|--------|
| Water Haulers, Machine Haulers and Drivers of one mule..... | \$ .90 |
| Drivers of two mules .....                                  | 2.00   |
| Motormen and Machine Runners .....                          | 2.35   |
| Track Layers .....                                          | 2.25   |
| Track Layers' Helpers .....                                 | 1.85   |
| Slate Shooters .....                                        | 2.10   |
| Couplers .....                                              | 1.10   |
| Greasers .....                                              | 1.00   |
| Trappers .....                                              | .80    |
| All other inside day labor .....                            | 1.85   |

RESOLUTIONS.

1. All labor shall be paid semi-monthly.
2. Check-weighmen to be placed on tipples at expense of miners, and his duties shall be those prescribed by the laws of the State, and all weigh scales may be tested by the miners at any reasonable time.
3. Employees have the right to trade where they please, and no coercion will be permitted to influence their trade.
4. No discrimination will be made against any employees on account of their membership with the organization.
5. No objection shall be made by the operators to the check-off for the requirements of the organization, said amounts not to exceed fifty cents per day.
6. Under no circumstances shall the mines cease operation pending the investigation of any dispute that may arise between the employer and employe.
7. The price of powder shall be \$1.75 per keg, and it is understood that the miners will buy their powder from the company, provided it is standard quality.
8. This agreement to be based on nine-hour day, and shall go into effect April 1st, 1903, and end March 31st, 1904.

WM. A. MACCORKLE, *Chairman.*

CLARK JOHNSON, *Secretary.*

CHARLESTON AGREEMENT.

1904-1906.

*Articles of Agreement:*

Articles of Agreement made and entered into this 31st day of March,

1904, by and between the Operators of the Kanawha District of West Virginia, and the United Mine Workers of America, governing the operation of mines in said district for the two years ending March 31st, 1906.

1. There shall be a horizontal reduction of 5.55 per cent. on all items of the scale of 1903.

2. Check-weighmen may be placed on tipples at the expense of miners, and their duties shall be those prescribed by the laws of the State of West Virginia, and all weigh scales may be tested by the miners at any reasonable time.

3. Employes have the right to trade where they please, and no coercion will be permitted to influence their trade.

4. The mining rate per ton for splint or hard coal shall be fixed upon a run of mine basis, but screened lump coal may be mined provided the increased rate paid for screened lump coal shall be accorded to the percentage of screenings in producing screehed lump as against mine run coal.

5. The Operator or his Superintendent or Mine Boss shall be respected in the management of the mine, and the direction of the working force. The authority to hire and discharge shall be vested in the Mine Superintendent or Mine Boss, and nothing in this agreement shall be construed to abridge the rights of the employer in either of these respects. If, however, any employe shall be suspended or discharged by the Company and it is claimed by said employe that an injustice has been done him, an investigation shall be conducted by the parties to the agreement, and in the manner set forth in rule 14, and if it is proved than an injustice has been done said employe, the Operator agrees to reinstate him. The investigation to begin immediately, and a decision to be reached within three days.

6. No objections to be made by the Operator to the check off from those for whom a scale is made and from such outside men as are employed on inclines and tipples who are eligible to membership in the United Mine Workers of America, for the requirements of the organization, said amount not to exceed 50 cents per day.

7. The Operator shall at all times be at liberty to load any railroad cars or barges whatsoever, regardless of their ownership, with coal, and sell and deliver such coal in any market, and to any person, firm or corporation, that he may desire.

8. Nine hours shall constitute a day's work: Nine hour day means nine hours work at the face, exclusive of Noon-time, six days a week, provided the Operator desires to work the mine, and no local ruling shall in any way affect this rule, or impose conditions affecting the same, and any class of day labor may be paid at the option of the Operator, for the number of hours or fraction thereof actually worked at the hour rate, based on one ninth of the scale rate per day, except that when the men go into the mine to work in the morning they shall be entitled to two hours work whether the mine works two hours or not. If for any reason the regular routine work cannot be furnished the inside day labor for any portion of the first two hours, the Operator may furnish other than regular labor for the unexpired time.

9. All labor shall be paid semi-monthly. Semi-monthly pay means that

the miners shall be paid twice a month, pay days to be determined locally, and statements shall be issued to all employes not later than twenty-four hours prior to pay day.

10. The miner shall be required to load his coal in every case free from slate, bone, nigger-head and other impurities.

11. All coal mined, drilled and blasted by the miners must be done in a practical and workmanlike manner, and in accordance with the State Mining Laws of West Virginia.

12. In paying for coal before it is screened, it is not intended to encourage unworkmanlike methods of mining and blasting coal, or to decrease the proportion of screened lump, and any miner will be subjected to discipline who, from ignorance, carelessness, or any other cause, fails to properly mine, shoot and load the coal.

13. In case any slate, bone, sulphur, or other impurities are sent out by the miner, it shall be the duty of the trimmer of the car to call the attention of the weighman, and check-weighman, where one is employed, to the same, so as to deduct said weight from the ascertained weight of such car, and the miner so offending be notified; for the second offense he may be suspended for one working day or fined one dollar; for the third and each subsequent offense occurring in any one month, he may be suspended, discharged or fined \$2.50, at the option of the Superintendent; that in malicious and aggravated cases, the Superintendent shall have the right to suspend or discharge for the first or any subsequent offense.

Any miner abusing, or seeking to embarrass the trimmer for performing his duties shall be fined three dollars, or be discharged at the option of the Superintendent.

It is understood that if the check-weighman leaves his post to investigate the amount of impurities thrown out, or for any other purpose the running of the coal over the tippie will not be suspended during his absence.

Splint coal loaded out with gas coal, when it is ordered to be separated, shall be considered as impurities, and shall be dealt with as such.

The proceeds of all fines arising under this clause to be paid into the funeral fund. Under no circumstances shall the fines be remitted or refunded.

14. The duties of the Mine Committee shall be confined to the adjustment of disputes between the Mine Boss and any of the miners working in the mine for whom this scale is made.

In case of any local trouble arising at any mine through the failure of a miner or mine laborer to agree with the Mine Boss, the Mine Committee and the Mine Boss are empowered to adjust it, and in case of their disagreement, it shall be referred to the Superintendent of the Company and the Miners' sub-district President, and should they fail to adjust it, it shall be referred in writing to the higher Officials of the Company and State Officials of the Mine-Workers to adjust it, and in all cases the miners and mine laborers and parties involved must continue at work pending the investigation and adjustment until a final decision is reached in the matter, as above set forth.

If any employe, for whom this scale is made, refuses to work because of any grievance which has not been taken up in the manner provided herein, and such action shall seem likely to impede the operation of the mine, the Mine Committee shall immediately furnish a man or men to take such place or places at the scale rate, in order that the mine shall continue at work; and it shall be the duty of any member or members of the Mine Workers, who may be called upon by the Mine Boss, or Mine Committee, to immediately take the place or places assigned him or them, in pursuance hereof.

The Mine Committee in the discharge of its duties, shall under no circumstances, go around the mine for any cause whatsoever, unless called upon by the Mine Boss or by the miner or day man who may have a grievance that he cannot settle with the Mine Boss.

The foregoing shall not be construed to prohibit the Mine Committee from looking after the membership dues, and initiation fees in any proper manner. Members of the Mine Committee employed as day men shall not leave their places of duty during working hours except with the permission of the Mine Boss or in cases involving the stopping of the mine.

15. The scale of prices agreed to for mining shall include the work required to mine, shoot and load the coal, and properly timber the working places in the mines, and the Operator shall be required to furnish the necessary props and timber to properly timber all working places.

If any miner shall fail to properly timber and care for his working place, and such failure shall entail falls of slate, rock and the like, or if, by improper or reckless shooting of the coal in room or entry, the mine props or other timbers, shall be disturbed, or unnecessary falls result, the miner whose fault is the occasion of such damage, shall repair the damage without compensation, and if such miner fails to repair such damage, it shall be considered a dischargeable offense, and he may be dealt with at the discretion of the Superintendent.

In any case where the Mine Boss directs the placing of cross-bars to secure the roadway, then, and in such cases only, the miner shall be paid for such crossbars as may be agreed upon between him and the Mine Boss. In case of miners shooting bottom; should any of the props be loosened or displaced, thereby endangering the safety of the workmen, the miner agrees to reset same. The above does not contemplate any changes from the ordinary method of timbering by the miner for his own safety.

16. Should any employe absent himself from his work for two days, or persist in working irregularly, unless through sickness, or by first having notified the Mine Boss and obtained his consent, it shall be construed as a dischargeable offense; and in case of sickness it is the duty of said employe to notify the Mine Boss at once in order that arrangements may be made to fill his place.

17. All classes of labor are to work full nine hours, and going to, and coming from their respective working places, is to be done on their own time. All day men shall perform whatever day labor the foreman

may direct, and a nine hour day means nine hours' work in the mine at the usual working places, exclusive of noon time, for all classes of inside day labor. This shall be exclusive of the time required in reaching said working places in the morning and departing from same at night.

Drivers shall take their mules to and from the stables and the time required in so doing does not include any part of the day's labor, their time beginning when they reach the change where they receive empty cars and ending at the same place. The prevailing customs relative to harnessing and unharnessing their mules shall continue.

18. The Operator will see that an equal turn is offered each miner, and that he is given a fair chance to obtain same. The check-weighman, where one is employed, shall keep a turn bulletin for the turn-keeper's guidance. The driver shall be subject to whoever the Mine Boss shall designate as turn-keeper in pursuance hereof. This rule is not applicable, and shall not be considered as preventing the Operator from driving entries as rapidly as he may desire, the regulation of the turn to be determined by the Mine Committee, the check-weighman, where employed, and the Mine Boss.

19. Miners shall drive double-shift entries when called upon to do so by the Operator, and 25 cents per yard extra shall be paid for pick entry and 20 cents per yard for machine entry.

20. A burial fund may be established by each mine or local, to which fund each miner shall contribute 25 cents per month, until a sum of not less than seventy-five and not more than one hundred and fifty dollars, shall have been created, when collections shall cease until the fund is reduced by death, when a collection of 25 cents per man, per month, shall again be made until the amount reaches the maximum agreed upon, and so on, and the Operator shall contribute in case of death of a miner, or any member of his family, an amount agreed upon by the Operator and the Burial Fund Committee. In consideration of this contribution, it is agreed and understood that the miners and day men will not cease work to attend the funeral of either miner, or member of the miner's family, except that in case the miner is killed outright while at work in the mine, in which event the mine may be closed the day of his death, resuming work the following morning. This is not to be construed to mean that the individual mine workers or relatives of the deceased shall not attend the funeral if they so desire.

There shall be a committee appointed known as the Funeral Fund Committee to take charge of these funds, and make all necessary funeral arrangements in case of any death, and said committee shall be paid for such duties as may be agreed upon locally.

21. Machine men will be required to cut coal level and close to bottom, and all machine men leaving more bottom than four inches, except in case of pots, or extreme variations, will be required to lift same or it shall be lifted at their expense.

In case sprags are left by machine men, they shall be notified by the loader, and if they refuse to remove same, the loader shall do so, and be allowed 50 cents for so doing, the said 50 cents shall be charged to the machine men.

22. Under no circumstances will the Operator recognize or treat with any Mine Committee, or any representative of the United Mine Workers of America during the suspension of work contrary to this agreement.

23. Where there is not sufficient room to gob the dirt, and draw slate in entries with ordinary conditions, the loader or miner shall load it in bank cars and the Company shall unload it.

24. All machine loaders shall be awarded two rooms, or equivalent of three rooms in thin seams for each two men, and they work "Buddies", and in that way load from one room at a time, so that it will give an opportunity to cut the other room, and not lose any time to machine or loader, and the Operator will provide such rooms for each two men at the earliest possible moment, but in the event of territory becoming scarce from a squeeze or striking a horse-back, or any other unavoidable obstacle, this shall not be construed so as to diminish the output of the mine.

25. The following employees are not eligible to membership to the United Mine Workers of America; Mine Boss, Inside Boss, Weighman, Dock Boss, or Boss Trimmer, Stable Boss, Electrician and Night Watchman.

It is understood that in the event of a disagreement between Operators and Mine Workers, Engineers are required to continue to perform such work as is in line with their duties.

26. No mine shall be compelled to hire more than one man as head-track-layer; all others shall be known as helpers, and so paid, and all helpers shall be expected to do such work as is laid out for them by the head track-layer.

27. For dead work where unusual conditions exist, the price to be paid for same shall be a question for local adjustment.

28. Where splint coal is separated and thrown back, to meet exceptional market conditions, and afterwards loaded, there shall be paid twelve and one-half cents (12½c.) per ton extra.

#### SCALE OF PRICES:

Basis—Ton 2,000 Pounds—Run of Mine Coal.

##### KANAWHA THICK VEIN NOS. 1 AND 2 SEAMS

|                                                                            |         |
|----------------------------------------------------------------------------|---------|
| Pick Mining .....                                                          | \$ .42½ |
| Yardage in pick entries and breakthroughs between entries.....             | .94½    |
| Machine loading in room .....                                              | .21½    |
| Machine loading in entries, breakthroughs in entries, and room necks ..... | .26     |
| Machine cutting in both rooms and entry.....                               | .05½    |

##### Kanawha Hard Coal No. 5 Seam.

|                                                                              |      |
|------------------------------------------------------------------------------|------|
| Pick Mining .....                                                            | .44½ |
| Yardage in pick entries and breakthroughs between entries.....               | 1.04 |
| Machine loading in rooms .....                                               | .22½ |
| Machine loading in entries and breakthroughs in entries and room necks ..... | .26½ |
| Machine cutting in room .....                                                | .06  |



|                                                                              |      |
|------------------------------------------------------------------------------|------|
| Machine cutting in entry, breakthroughs between entries and room necks ..... | .06¾ |
| Screened coal to be paid for on basis of percentage of screenings.           |      |

*Coalburg Seam.*

|                                                                              |      |
|------------------------------------------------------------------------------|------|
| Pick mining .....                                                            | .49  |
| Yardage in pick entry and breakthroughs between entries.....                 | 1.18 |
| Machine loading in room .....                                                | .27  |
| Machine loading in entry and breakthroughs in entries and room necks .....   | .31  |
| Machine cutting in room .....                                                | .06½ |
| Machine cutting in entry, breakthroughs between entries and room necks ..... | .07½ |

*Over 1½-Inch Screen.*

|                                                                              |      |
|------------------------------------------------------------------------------|------|
| Pick mining .....                                                            | .70¾ |
| Machine loading in room .....                                                | .36  |
| Machine loading in entry breakthroughs in entry and room necks..             | .43½ |
| Machine cutting in room .....                                                | .08½ |
| Machine cutting in entry, breakthroughs between entries and room necks ..... | .09¾ |

*Cedar Grove Seam.*

|                                                                                |        |
|--------------------------------------------------------------------------------|--------|
| Pick mining .....                                                              | \$ .49 |
| Yardage in pick entries and breakthroughs between entries.....                 | .80¼   |
| Machine loading in room .....                                                  | .27    |
| Machine loading in entries, breakthroughs between entries and room necks ..... | .31    |
| Machine cutting in room .....                                                  | .80¼   |
| Machine cutting in entries, breakthroughs between entries and room necks ..... | .09¼   |

Lewiston seam to same as Coalburg.

Kanawha seam to be same as Coalburg.

Black Band seam to be same as Coalburg.

Elk River seam to be same as Kanawha hard coal, or No. 5 seam and Coalburg.

Guyandotte River to be same as Kanawha hard coal, or No. 5 and Coalburg.

Raymond seam to be same as Coalburg except to be mined over 1¾ screen, and there shall be a differential of ¾c. per bushel.

Gauley River seams to be based upon Kanawha seams that apply to them.

Elk River cannel coal, special price to be agreed upon.

**INSIDE DAY LABOR.**

|                                                            |        |
|------------------------------------------------------------|--------|
| Water haulers, machine haulers' and drivers of 1 mule..... | \$1.80 |
| Drivers of two mules .....                                 | 1.89   |
| Motormen and machine runners .....                         | 2.22   |
| Track layers .....                                         | 2.12½  |
| Track layers' helpers .....                                | 1.75   |

---

|                                  |      |
|----------------------------------|------|
| Slate shooters .....             | 1.98 |
| Couplers .....                   | 1.04 |
| Greasers .....                   | .95  |
| Trappers .....                   | .75  |
| All other inside day labor ..... | 1.75 |

*FOR THE MINERS:*

H. A. WOODRUM,  
 J. S. MASSEY,  
 D. C. KENNEDY, Pres. Dis. No. 17.  
 J. P. IRELAND, Pres. Sub. Dis.  
 T. L. LEWIS, Nat. Vice-Pres. U. M. W. of A.  
 C. J. BUMPUS, Sec. Sub. Dis.

*FOR THE OPERATORS:*

JNO. H. WINDER,  
 ENOCH CARVER,  
 J. W. DAWSON,  
     Chairman of Joint Convention.  
 CLARK JOHNSON,  
     Secretary of Joint Convention.  
 D. T. EVANS,  
     Secretary of Joint Convention.

---

*MAPS OF MINES.*

---

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|-----------------|----------------------------------------|

**Plate II.—**

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|---------------------------------|----------------------------------------------|

**Plate III.—**

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|---------------------|--------------------------------------------|

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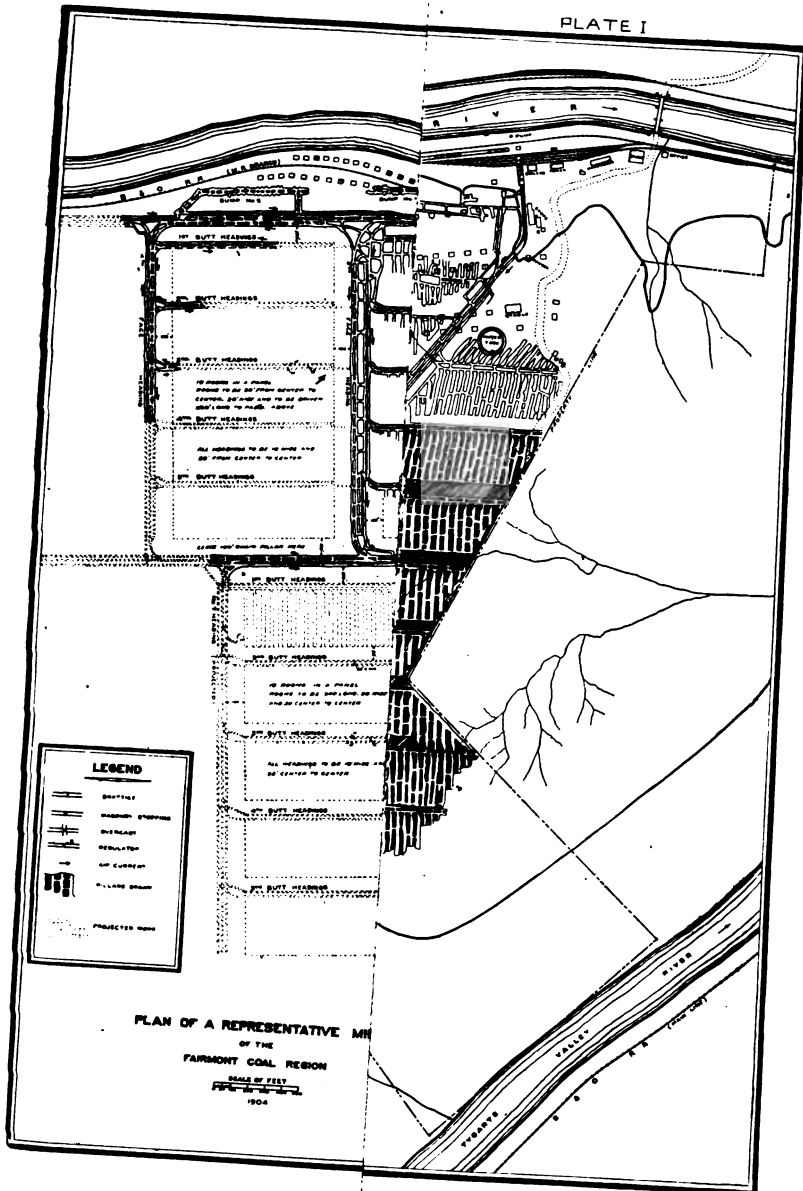
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*for  
9-14-1904*

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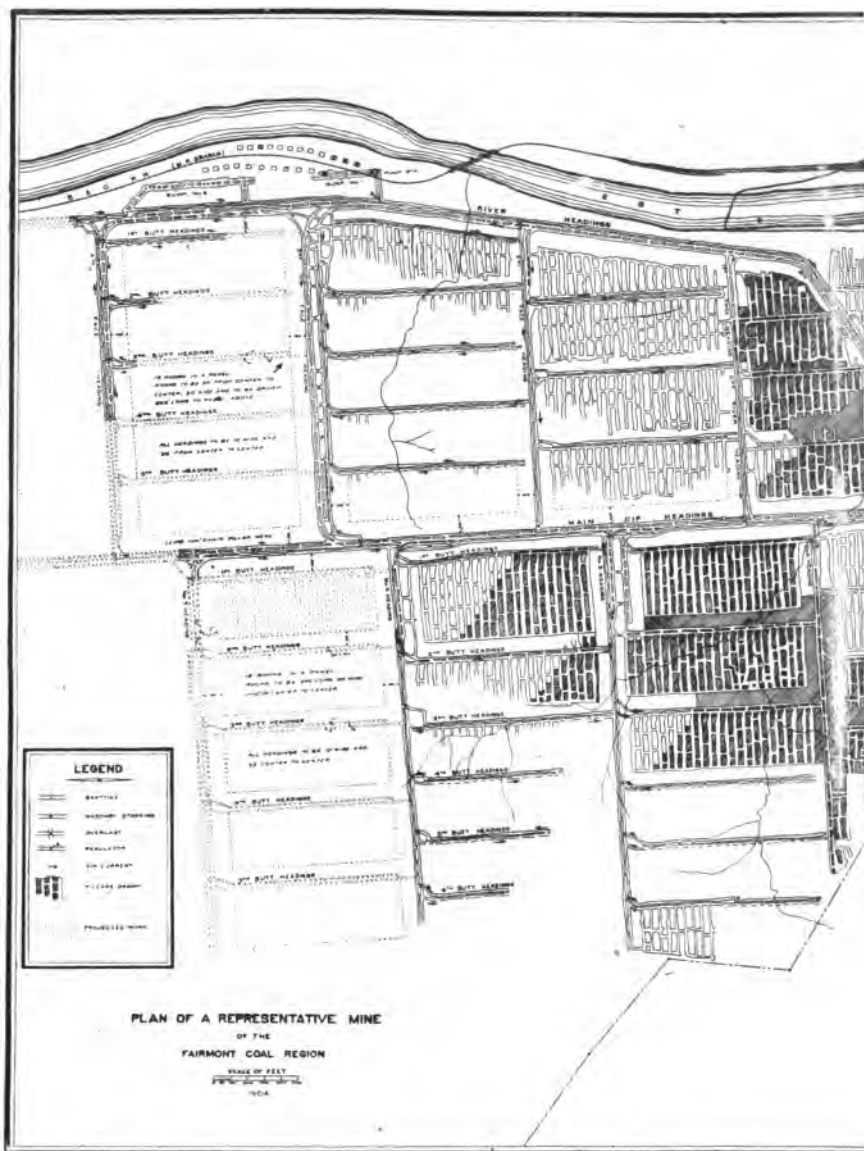
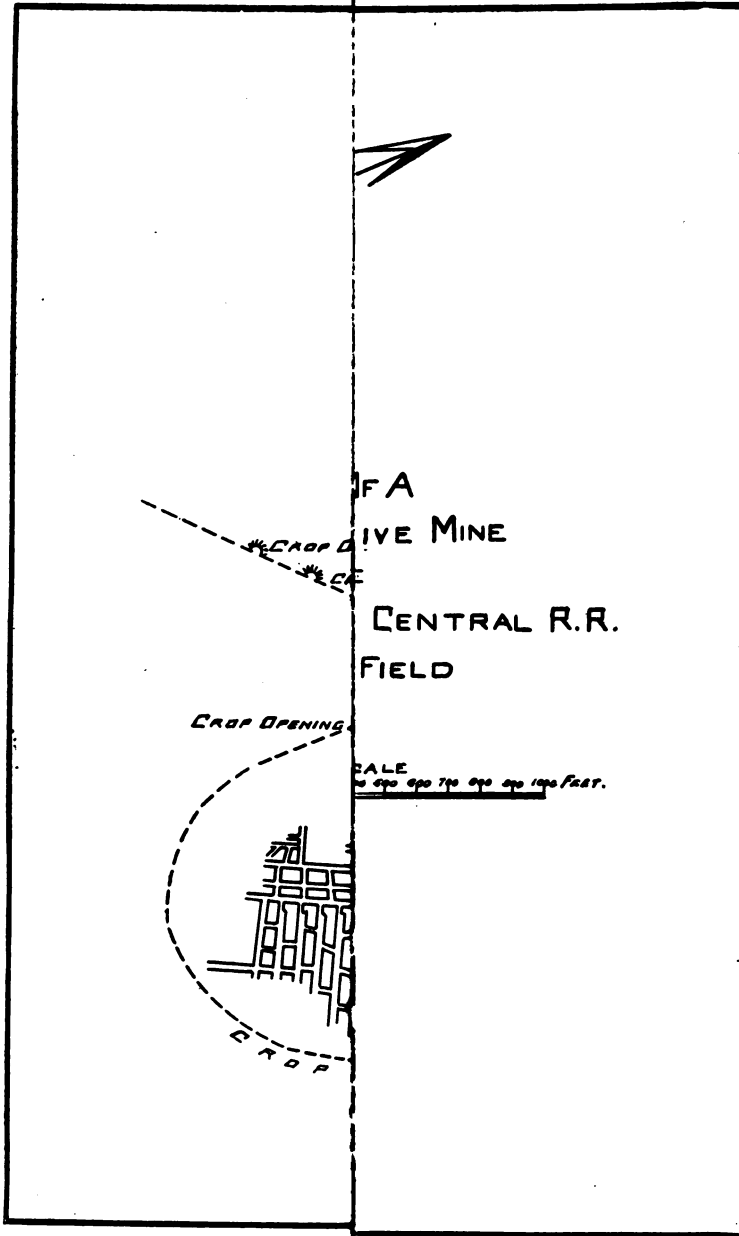


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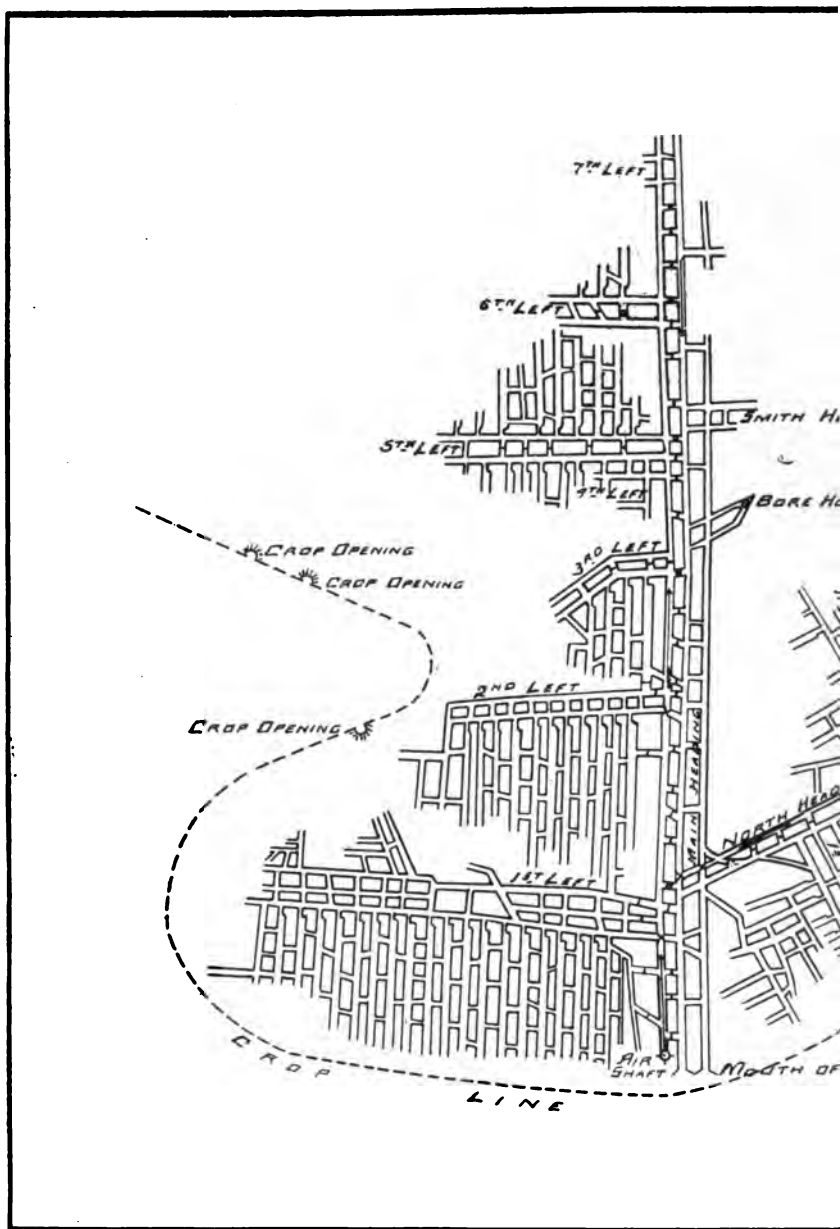


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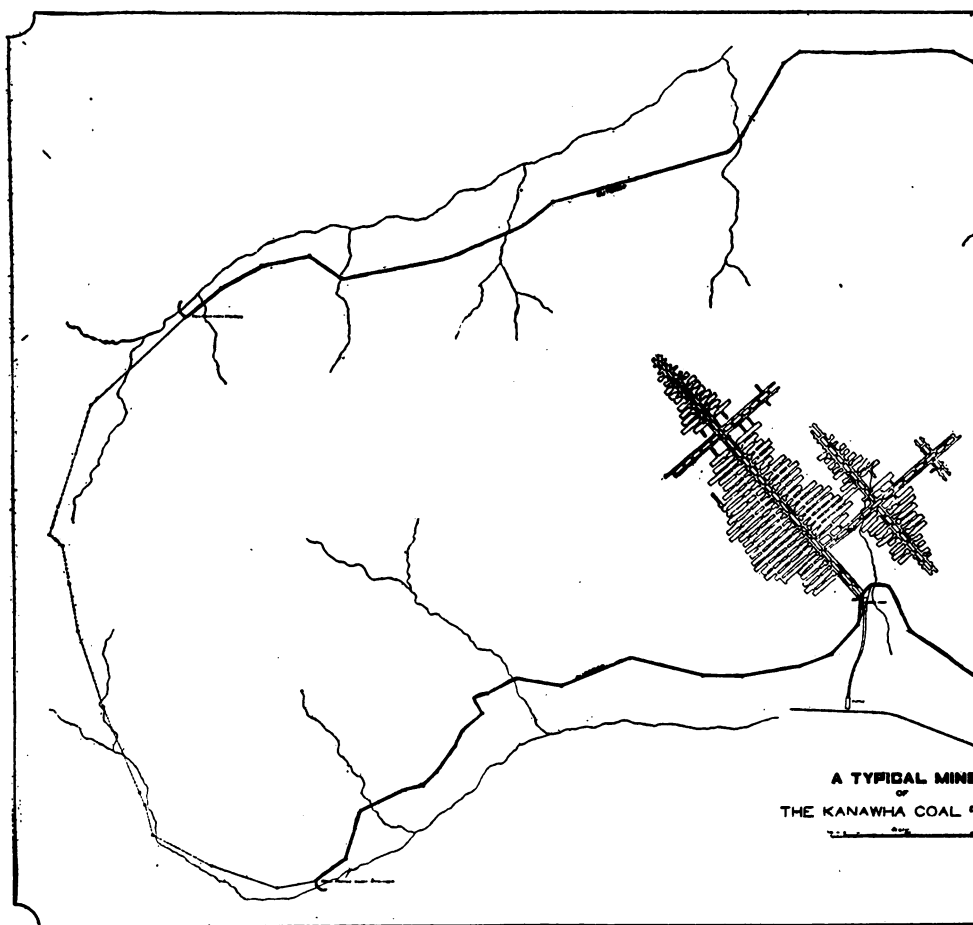
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A TYPICAL MINE  
OF  
THE KANAWHA COAL FIELD  
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PLATE III.—KANAWHA COAL FIELD  
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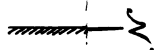
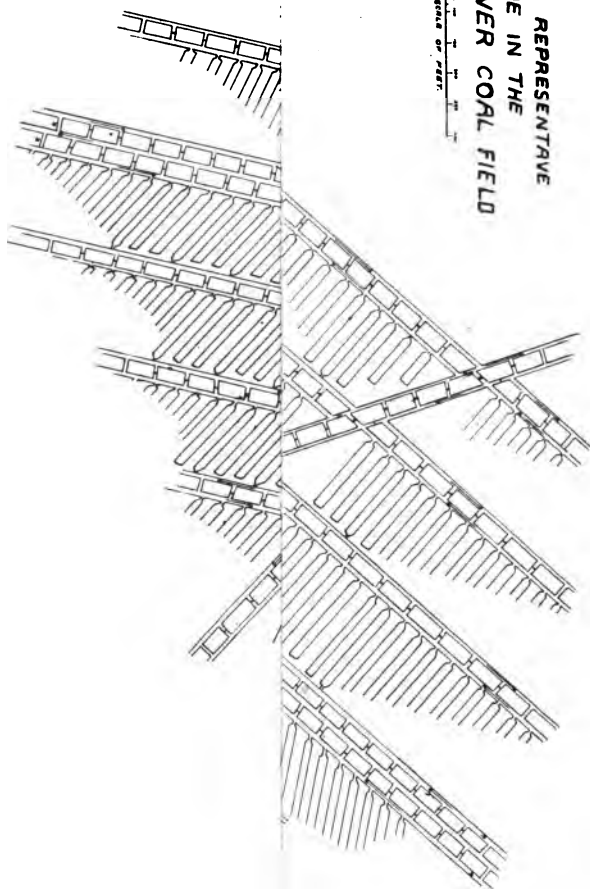
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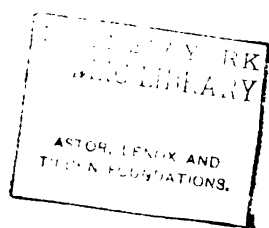
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PLATE IV

PLAN OF REPRESENTATIVE  
MINE IN THE  
NEW RIVER COAL FIELD

SCALE OF FEET  
0 10 20 30 40 50





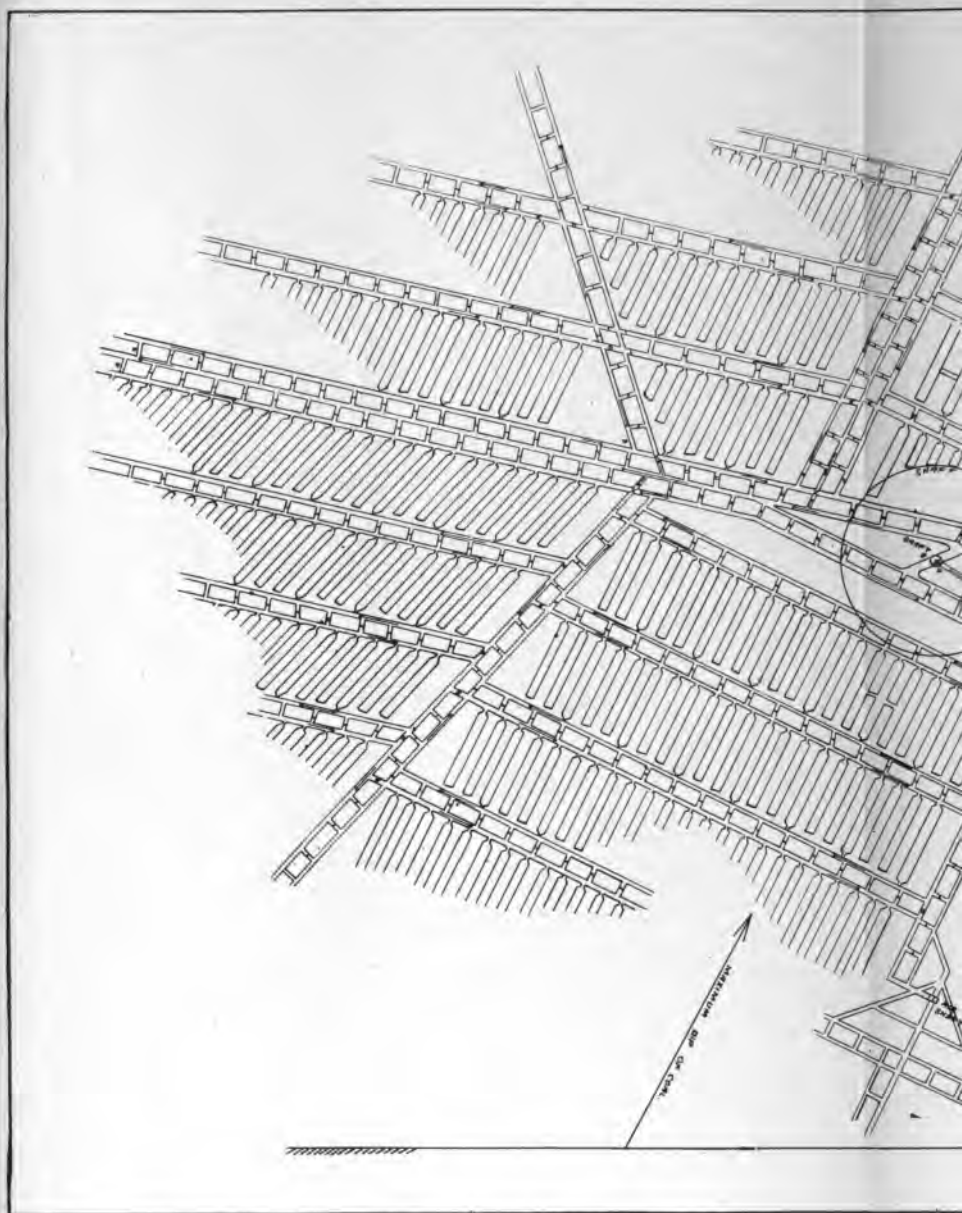


PLATE IV.—NEW RIVER COAL FIELD  
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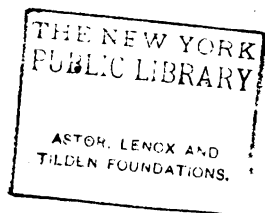
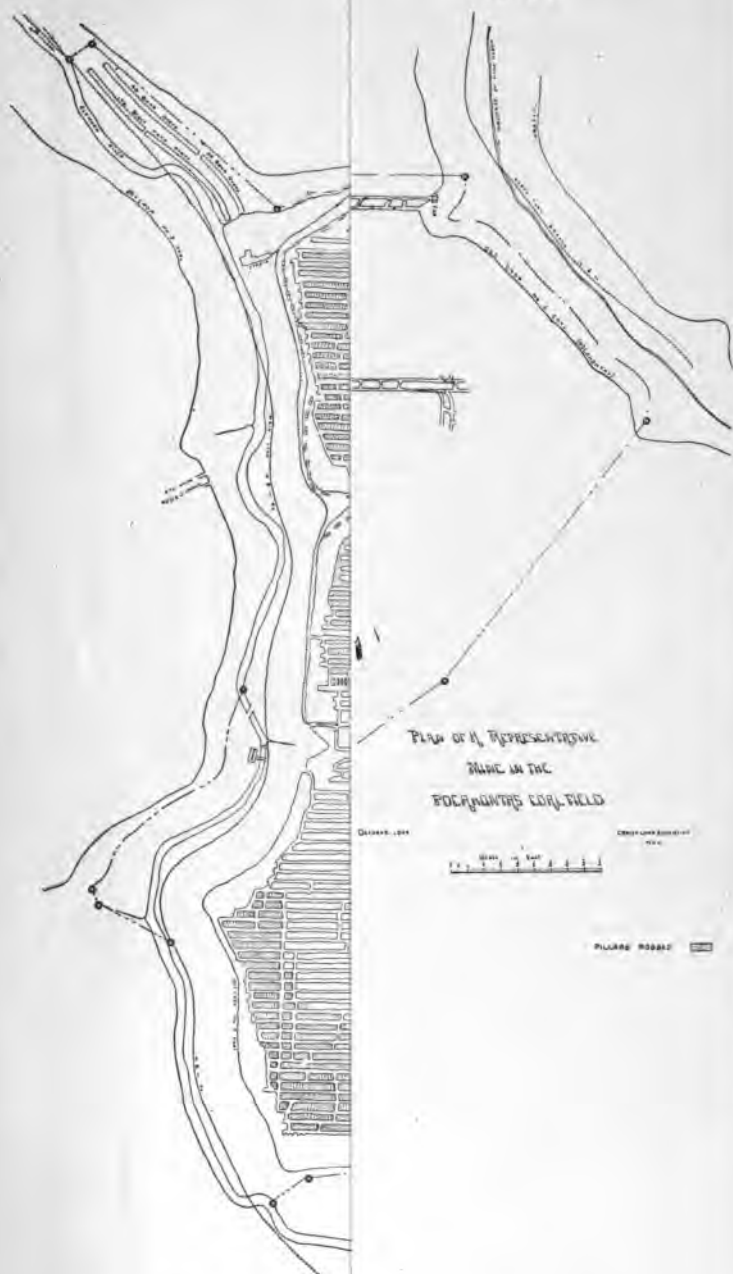


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PLATE V.—POCAHONTAS COAL FIELD.  
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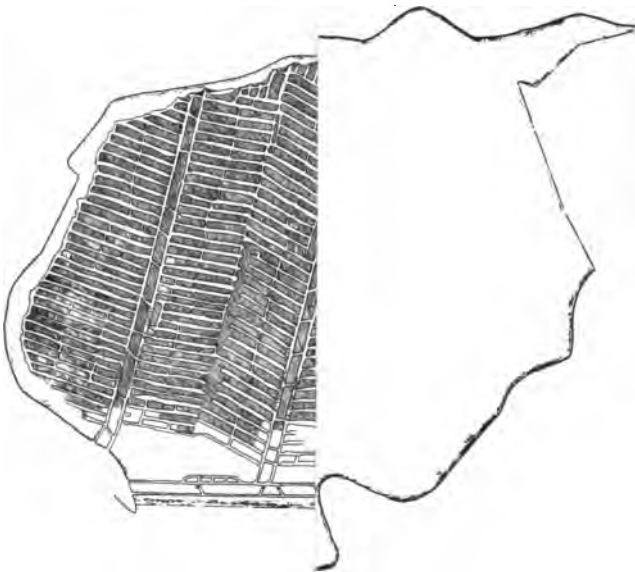
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PLATE VI.

PLAN  
of a  
REPRESENTATIVE MINE  
in the  
NORFOLK & WESTERN COAL FIELD

SCALE = 1:125



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ASTOR LENOX AND  
TILDEN FOUNDATIONS.

PLAN  
of a  
REPRESENTATIVE MINE  
in the  
NORFOLK & WESTERN COAL FIELD

SCALE IN FEET  
0 10 20 30 40 50 60 70 80 90 100

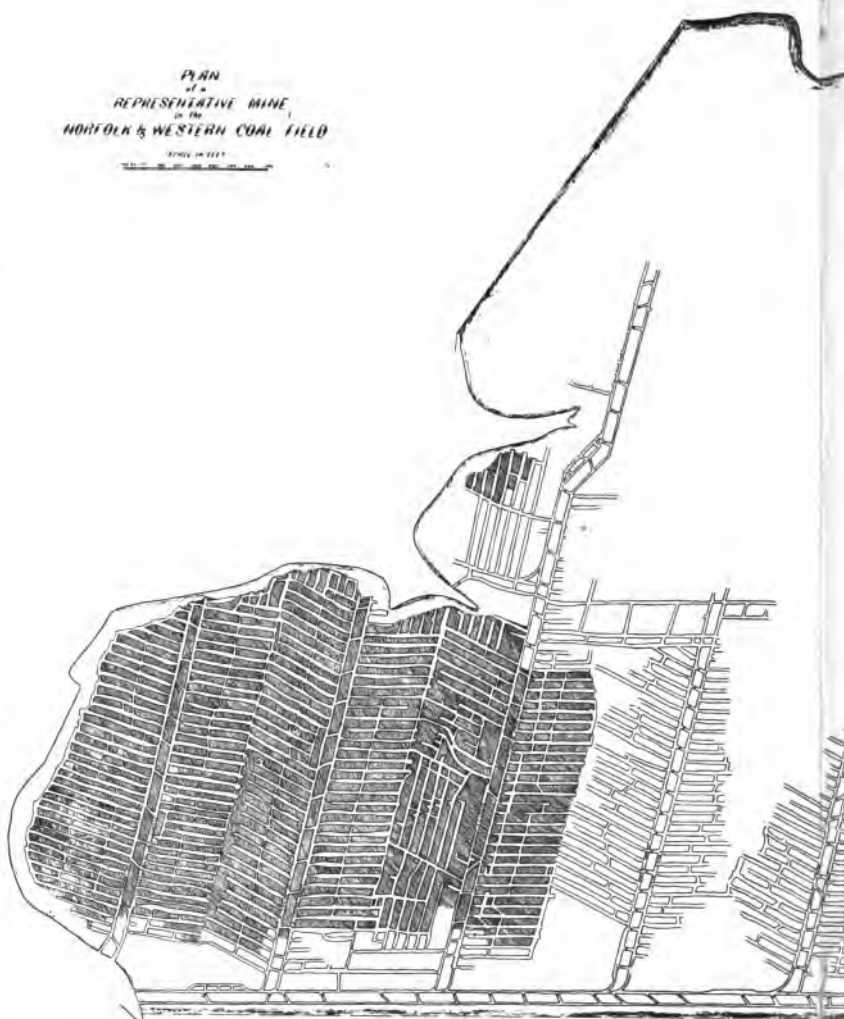
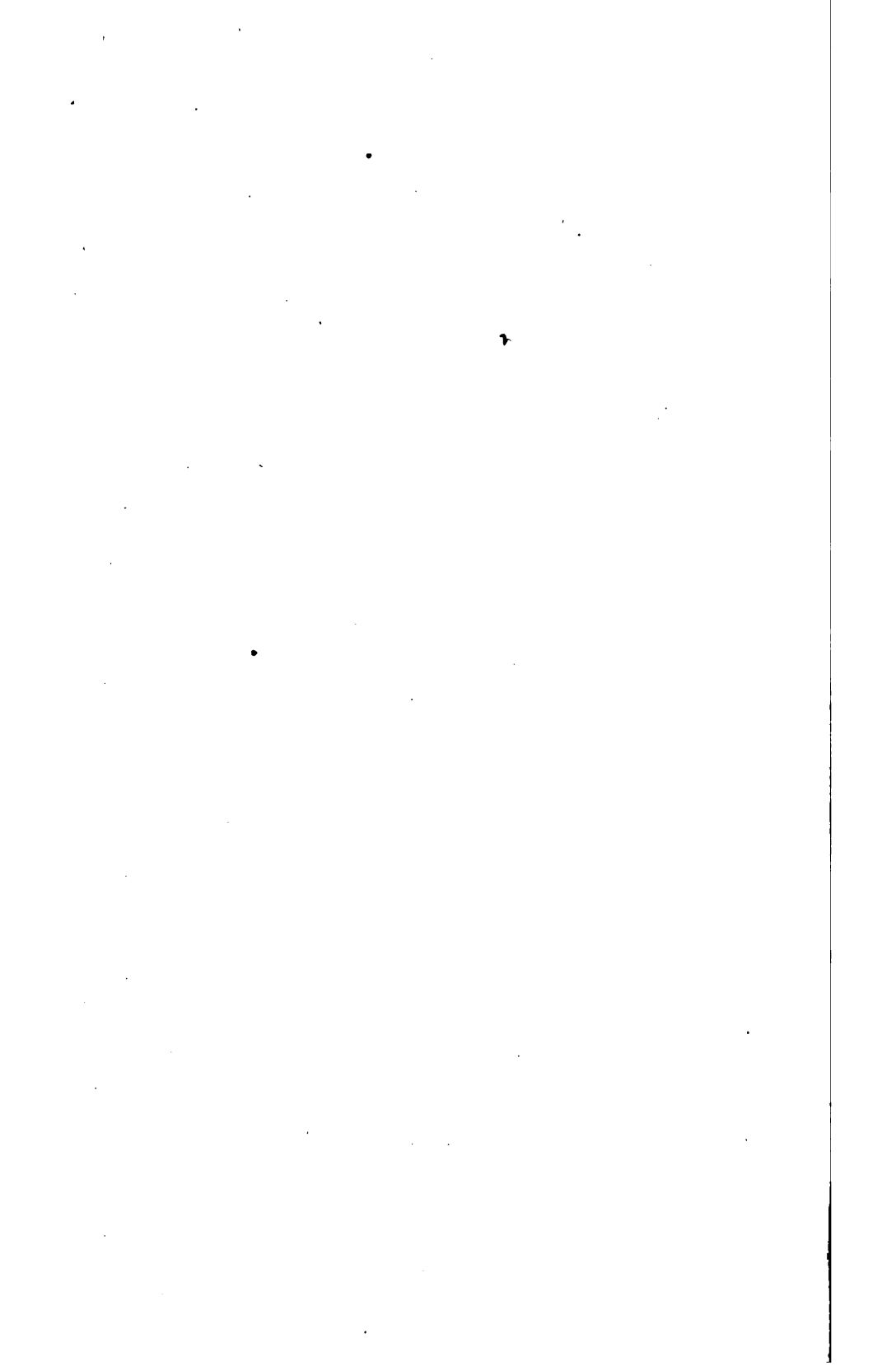


PLATE VI.—NORFOLK & WESTERN CO  
Accompanying Annual Report of James W. Paul, C





# PLATE VII

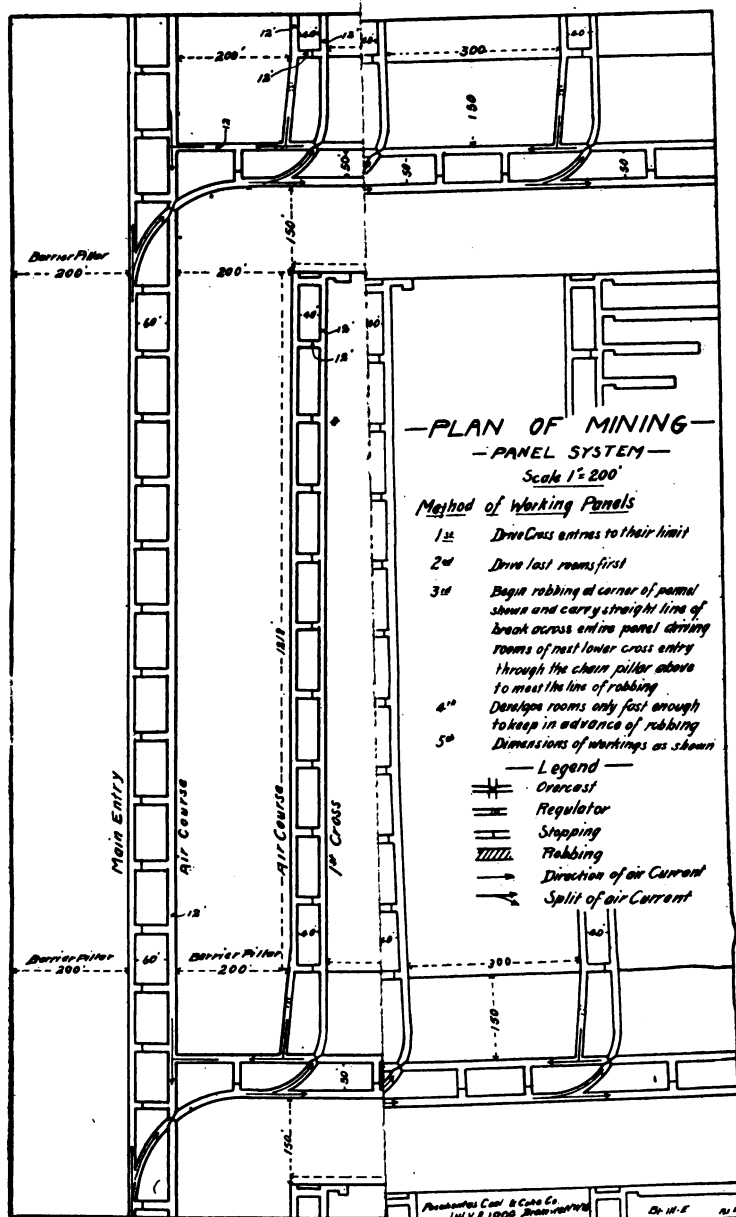
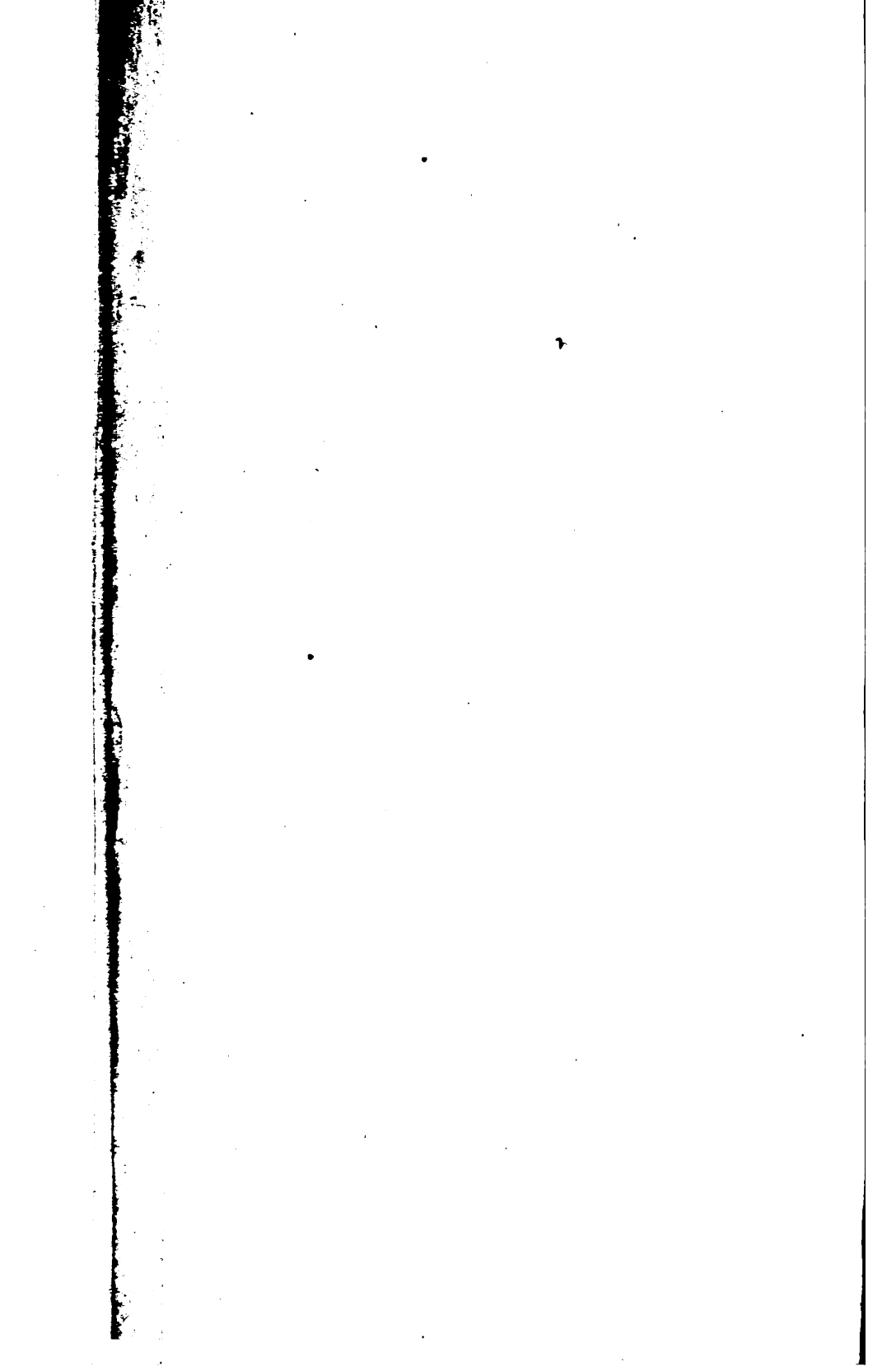


PLATE VII.—F & COKE CO.

Ac.

Academy Coal & Coke Co.  
July 8 1900. Drawn by J. H. E.

Dr. H. E.



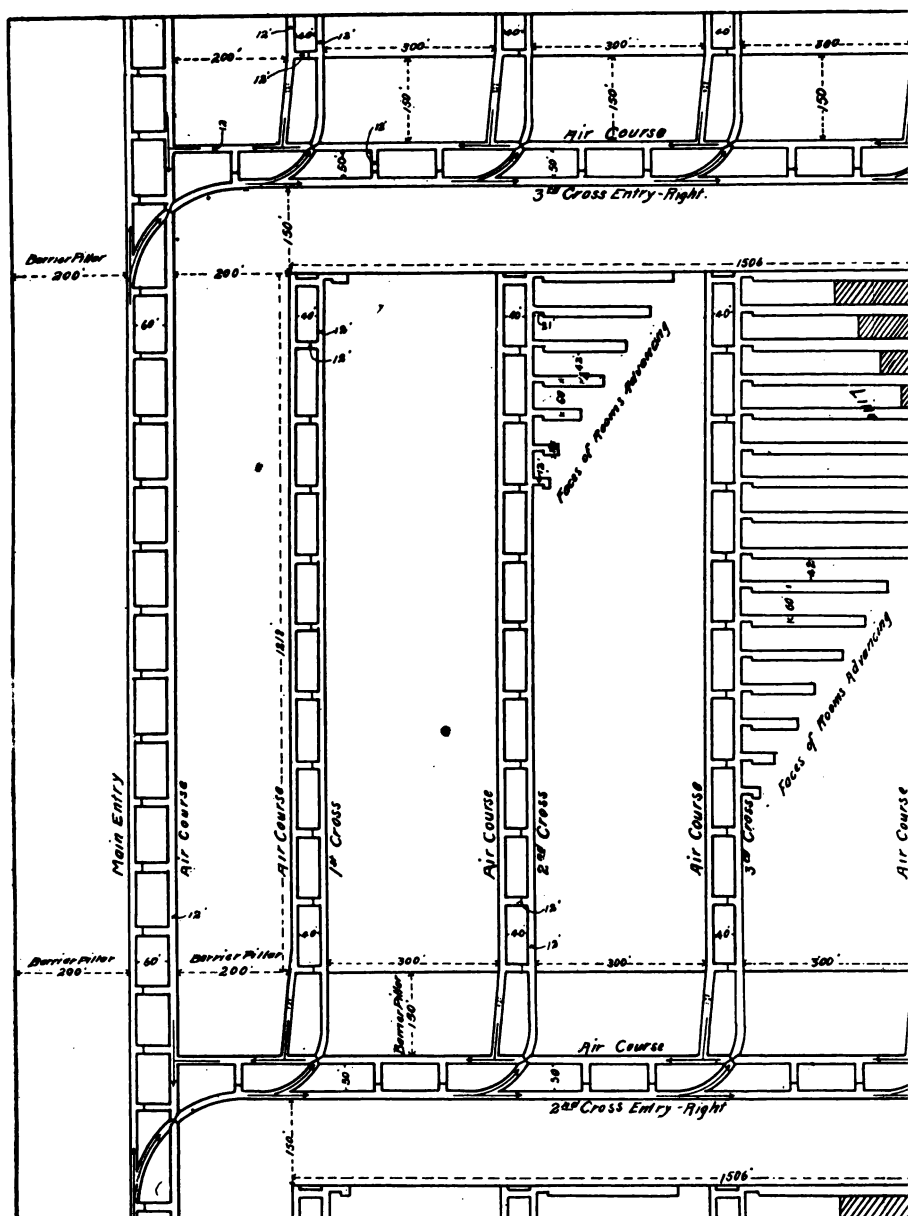
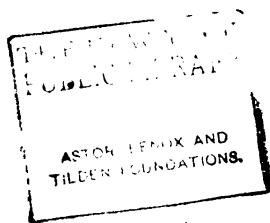
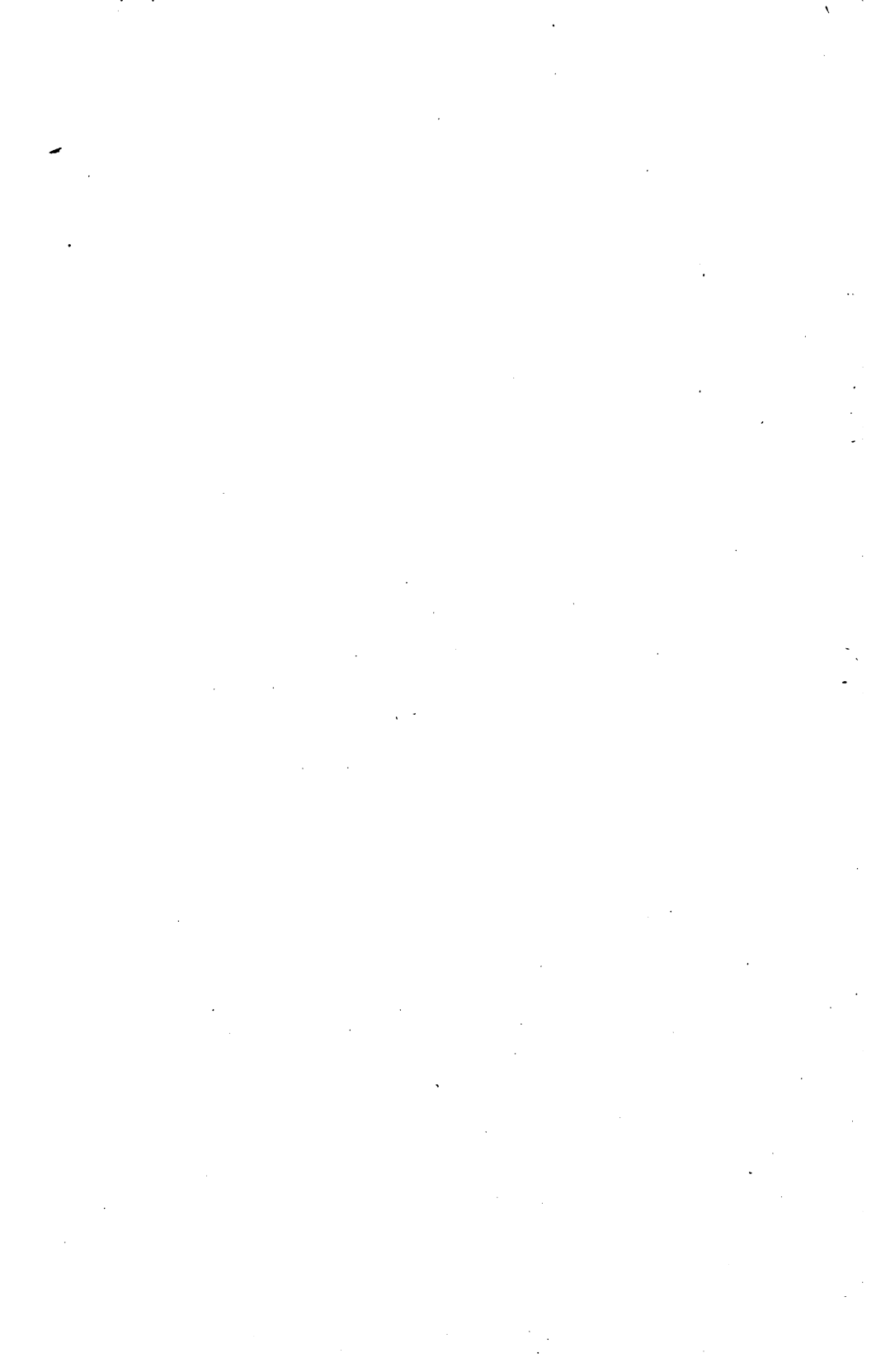


PLATE VII.—POCAHONTAS FIELD. PLAN PROPOSED FOR  
Accompanying Annual Report of James W. Paul,

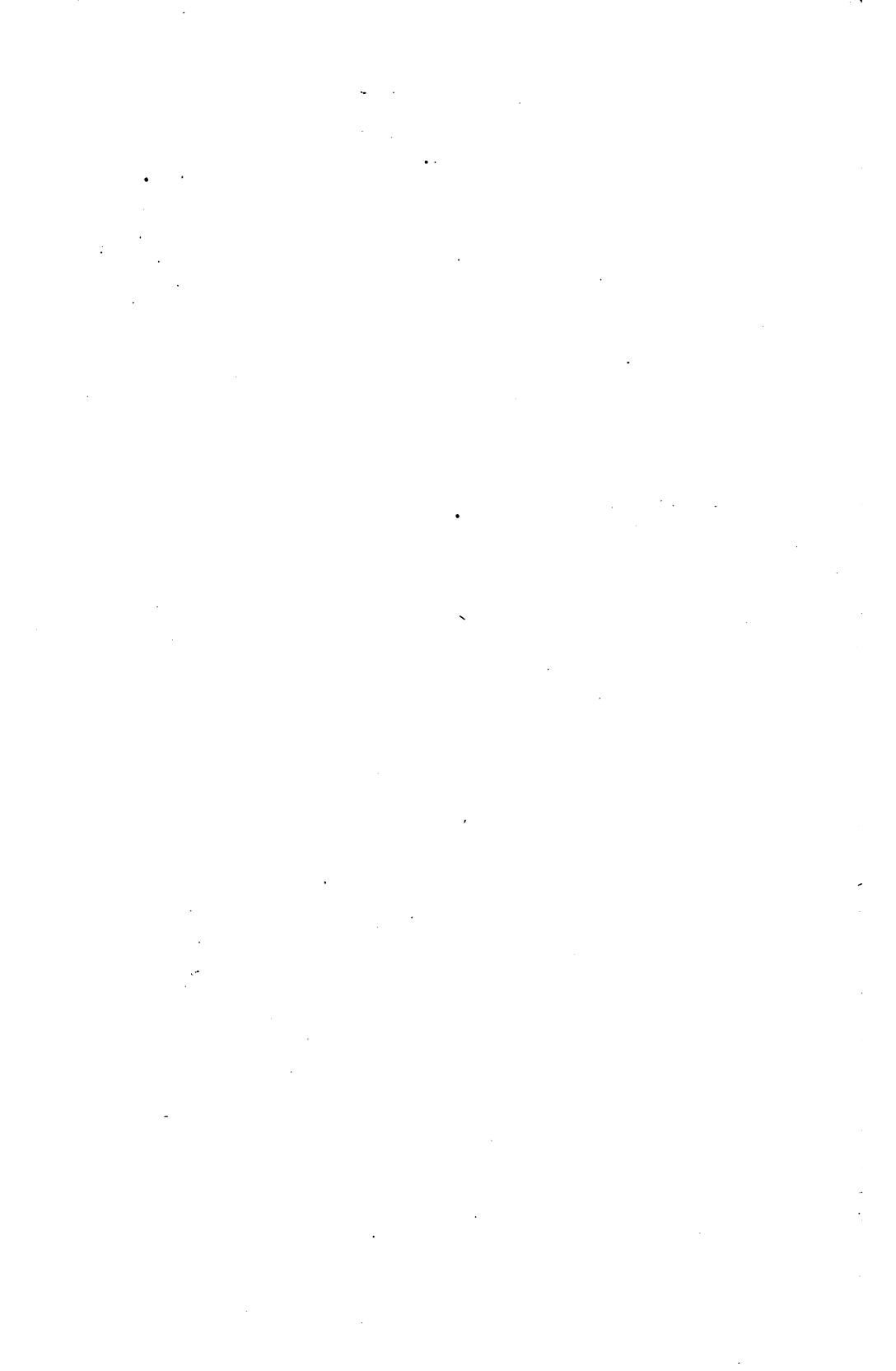


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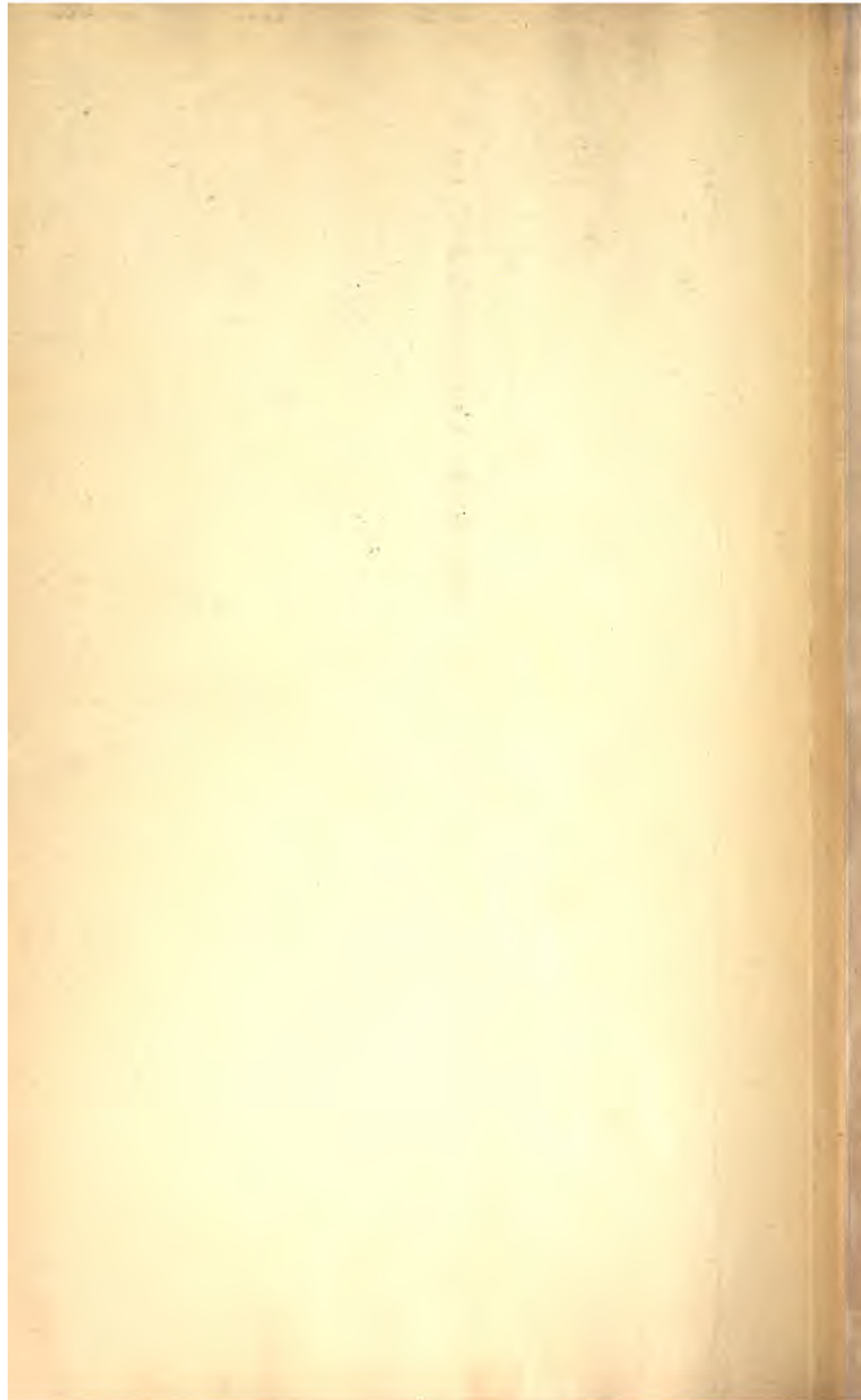
CR











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